

Program Complot  
(Version 2021-1)

by

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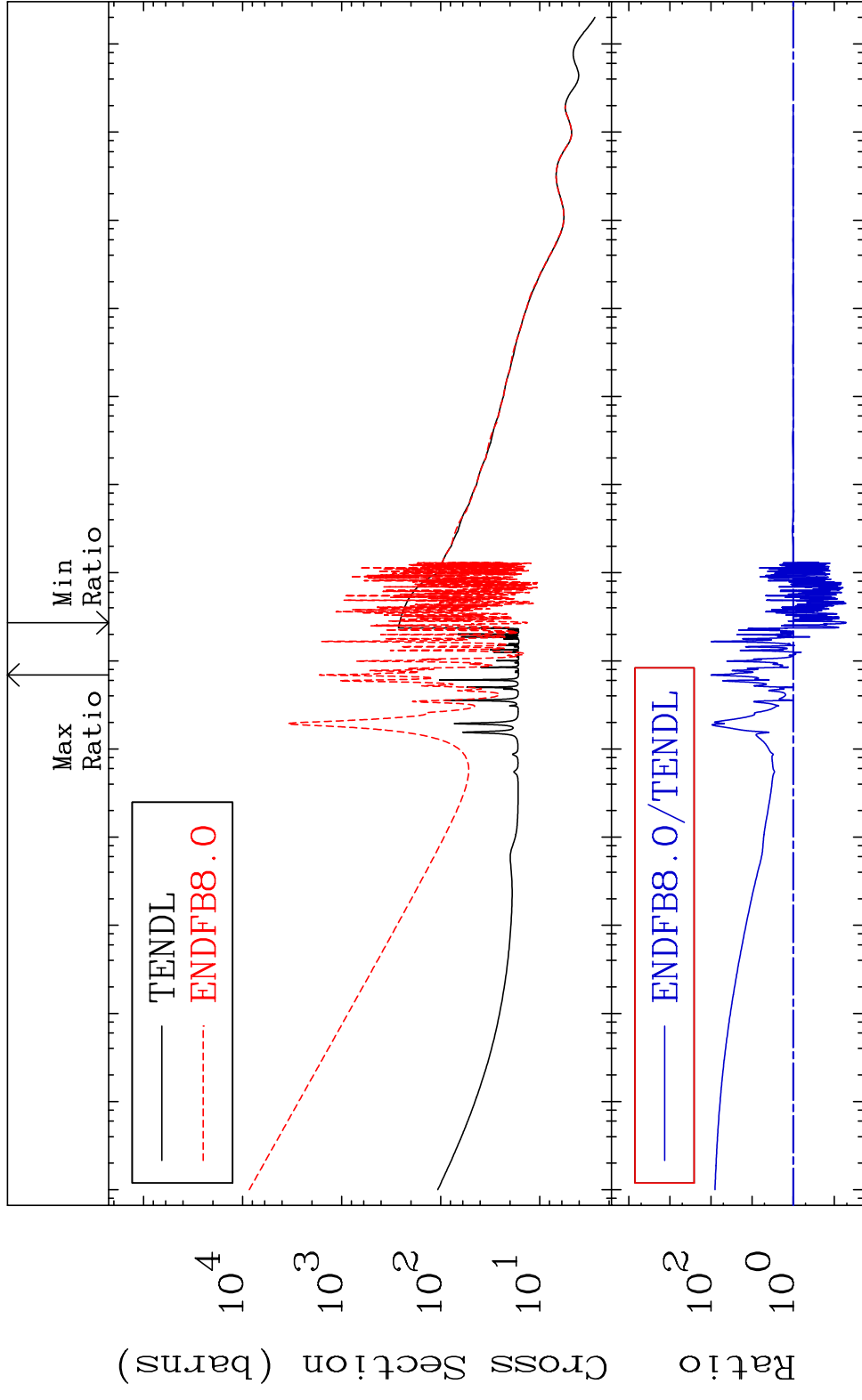
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7529

Total  
Cross Section -94.88 To 9999. %

75-Re-186m



10<sup>4</sup> 10<sup>3</sup> 10<sup>2</sup> 10<sup>1</sup> 10<sup>0</sup> 10<sup>-1</sup> 10<sup>-2</sup> 10<sup>-3</sup> 10<sup>-4</sup> 10<sup>-5</sup>

10<sup>8</sup> 10<sup>7</sup> 10<sup>6</sup> 10<sup>5</sup> 10<sup>4</sup> 10<sup>3</sup> 10<sup>2</sup> 10<sup>1</sup> 10<sup>0</sup> 10<sup>-1</sup> 10<sup>-2</sup> 10<sup>-3</sup> 10<sup>-4</sup> 10<sup>-5</sup>

1

Incident Energy (eV)

75-Re-186m

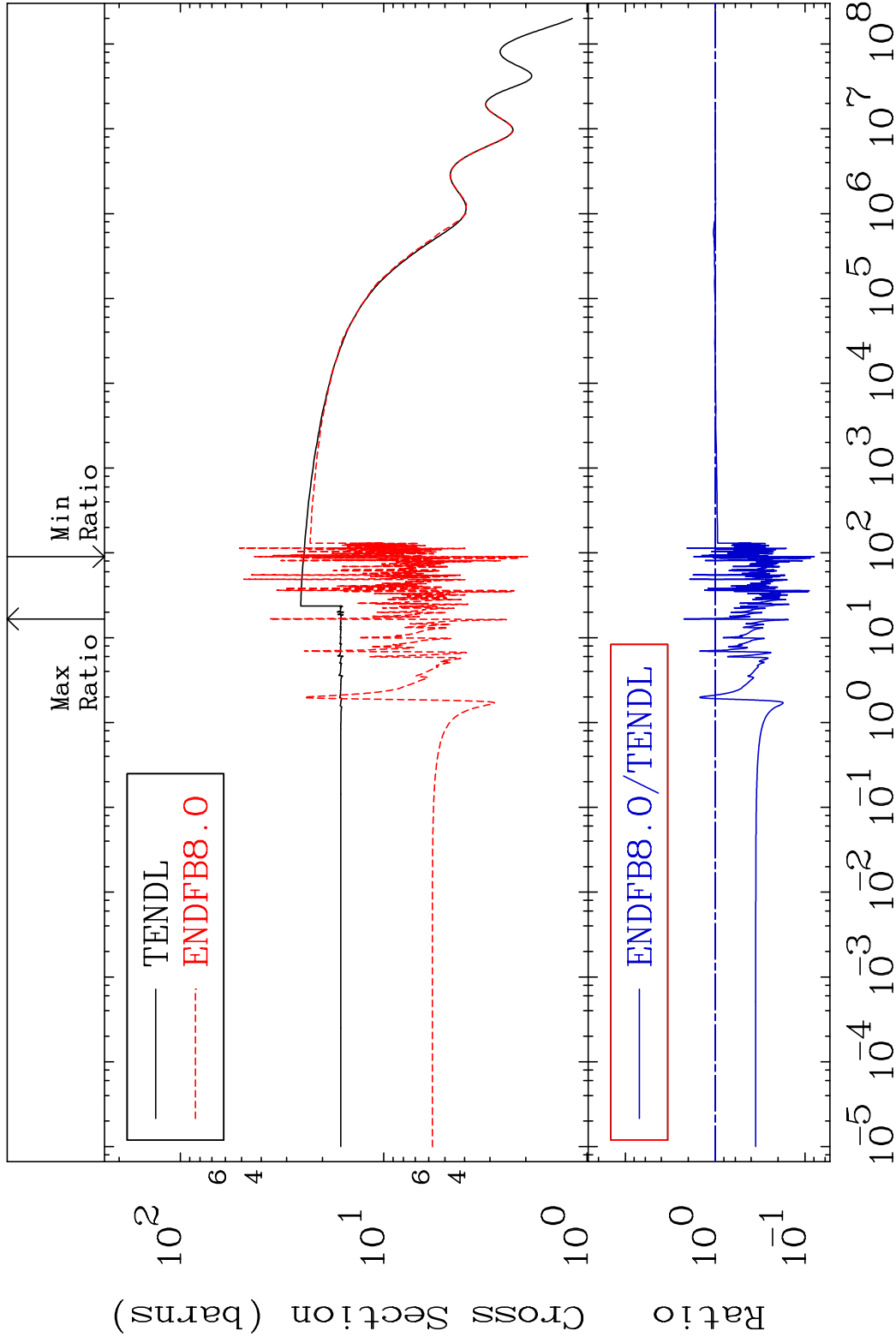
MAT 7529

Elastic

75-Re-186m

Cross Section

-92.06 To 125.0 %



2

Incident Energy (eV)

75-Re-186m

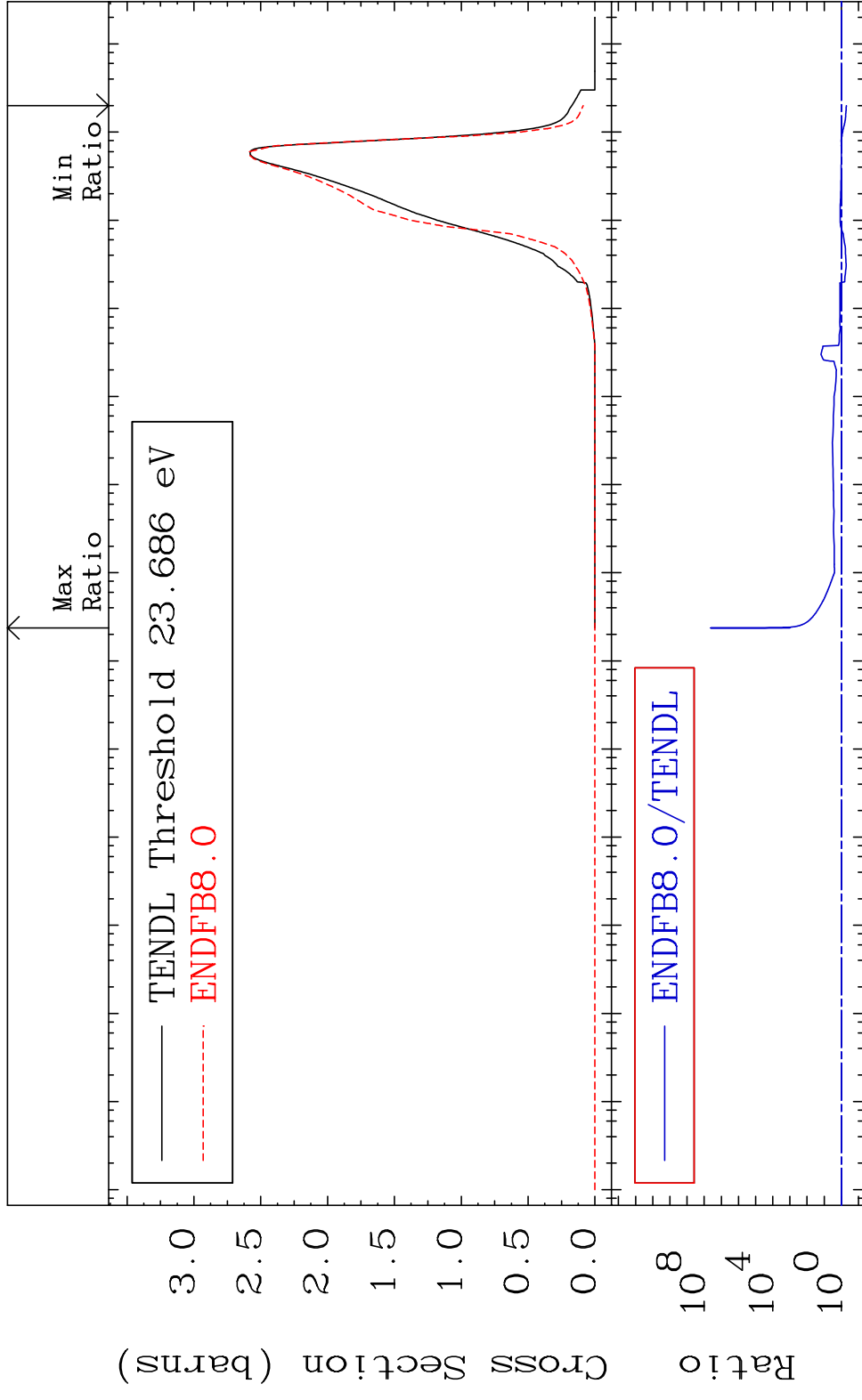
MAT 7529

Inelastic

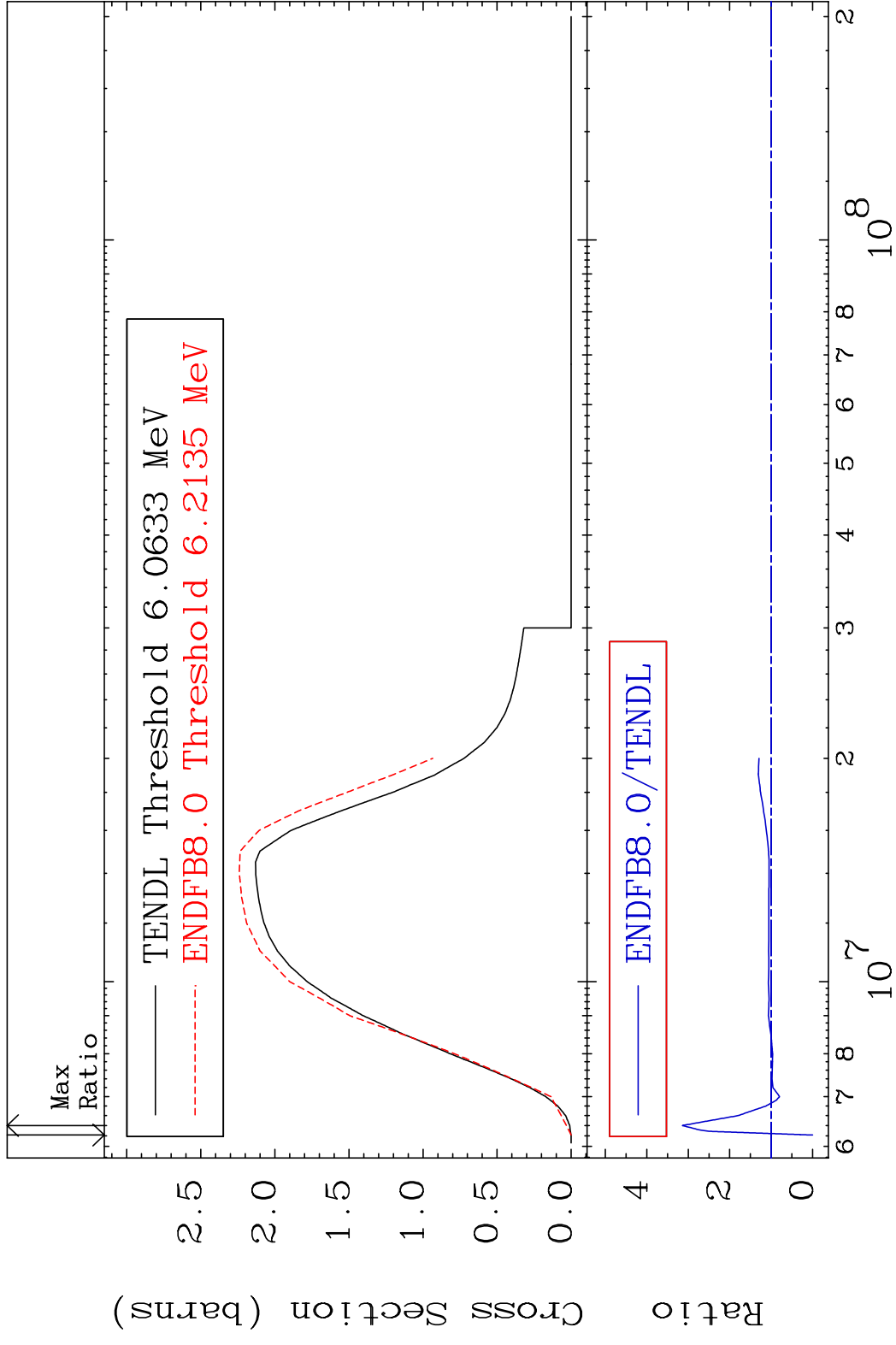
75-Re-186m

Cross Section

-48.65 To 9999. %

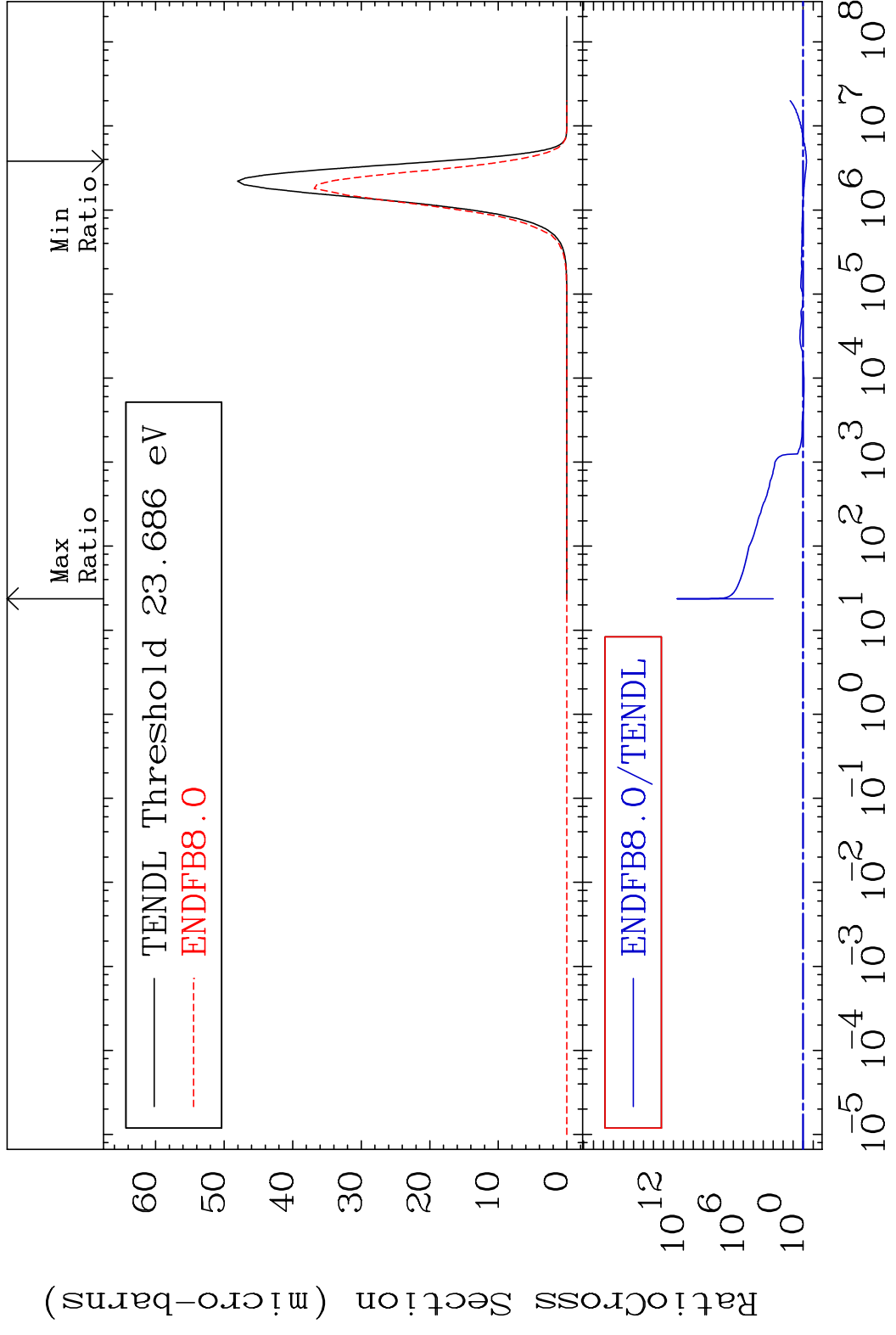


MAT 7529 (n,2n) 75-Re-186m  
 Cross Section -100.0 To 214.2 %



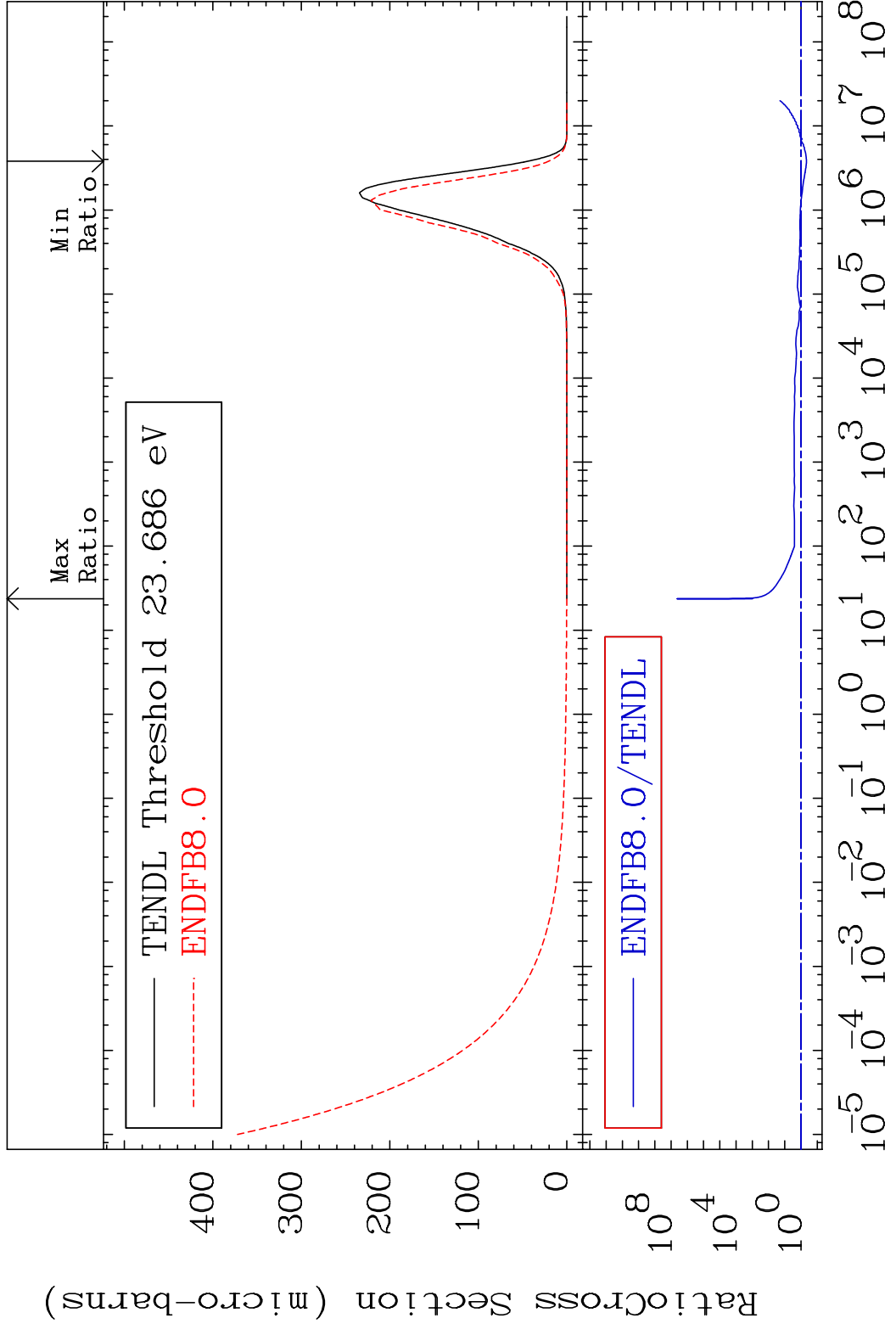
4 Incident Energy (eV) 75-Re-186m

MAT 7529 MT= 51 (n, n') Level 75-Re-186m  
 Cross Section -52.60 To 9999. %

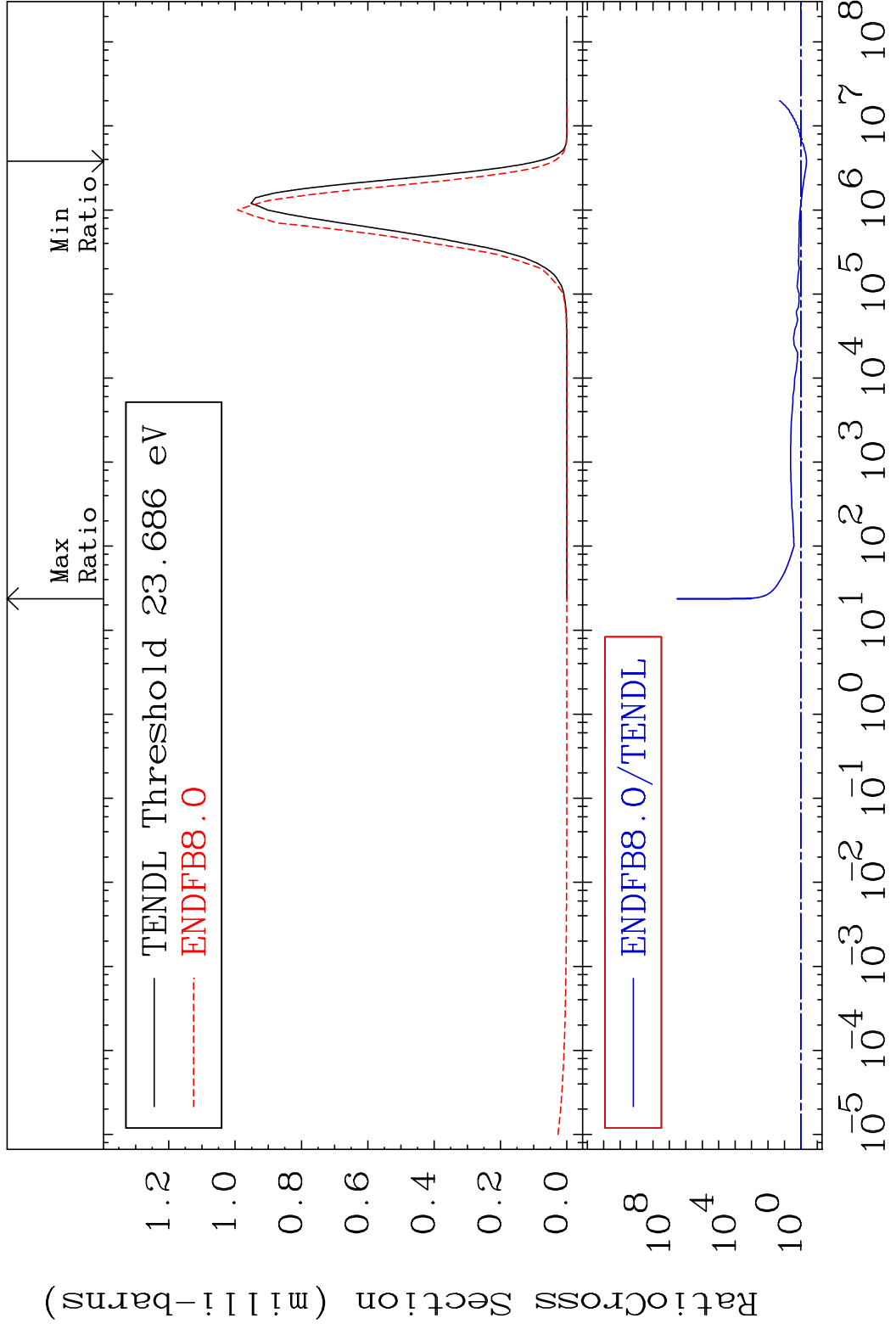


5 Incident Energy (eV) 75-Re-186m

MAT 7529      MT= 52 (n, n') Level      75-Re-186m  
 Cross Section      -53.35 To 9999. %



MAT 7529 MT= 53 (n, n') Level 75-Re-186m  
 Cross Section -54.11 To 9999. %



7 Incident Energy (eV) 75-Re-186m

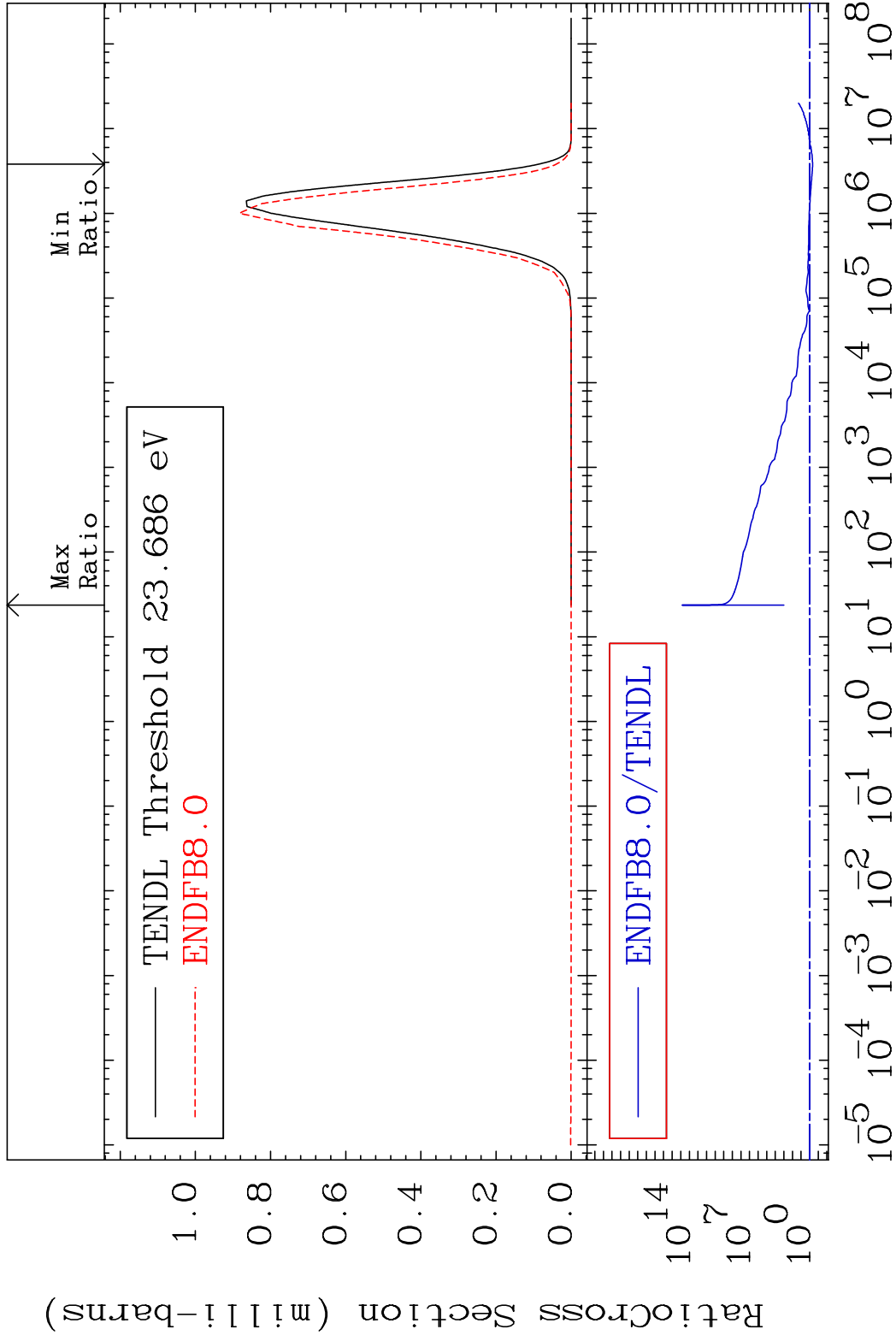


MAT 7529

MT= 54 (n, n') Level

75-Re-186m

Cross Section -54.05 To 9999. %

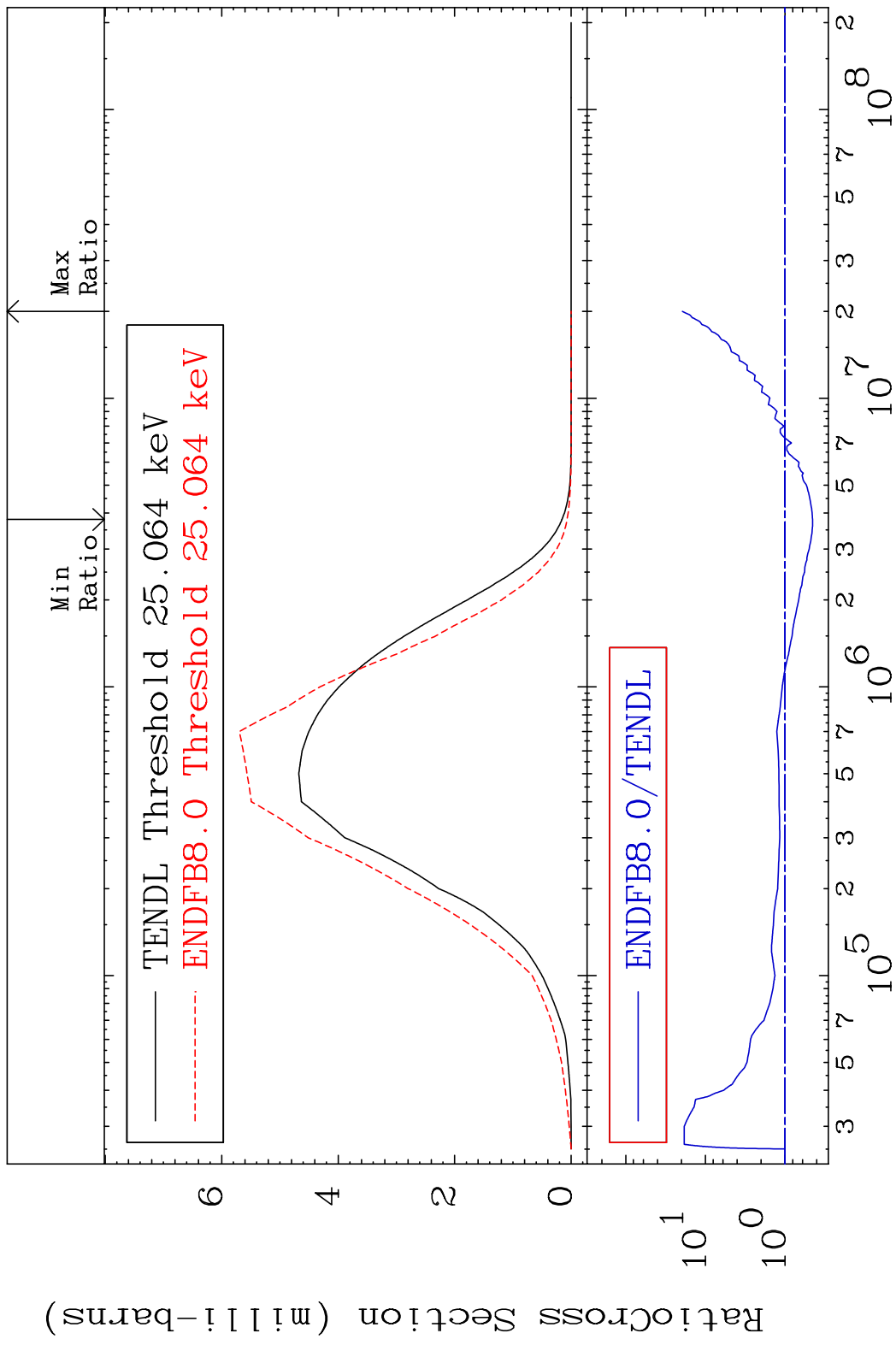


8

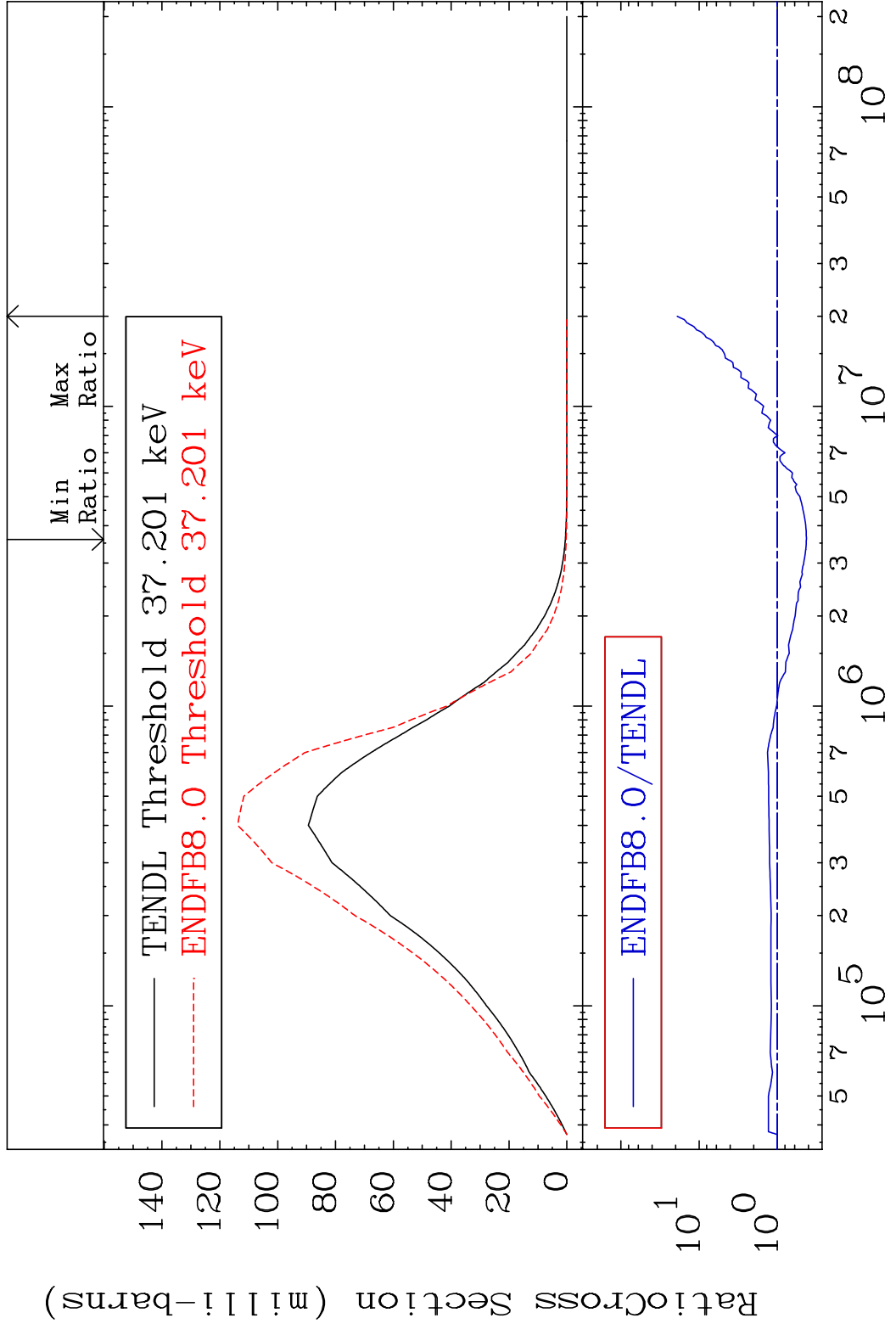
Incident Energy (eV)

75-Re-186m

MAT 7529 MT= 55 (n, n') Level 75-Re-186m  
 Cross Section -55.01 To 1845. %

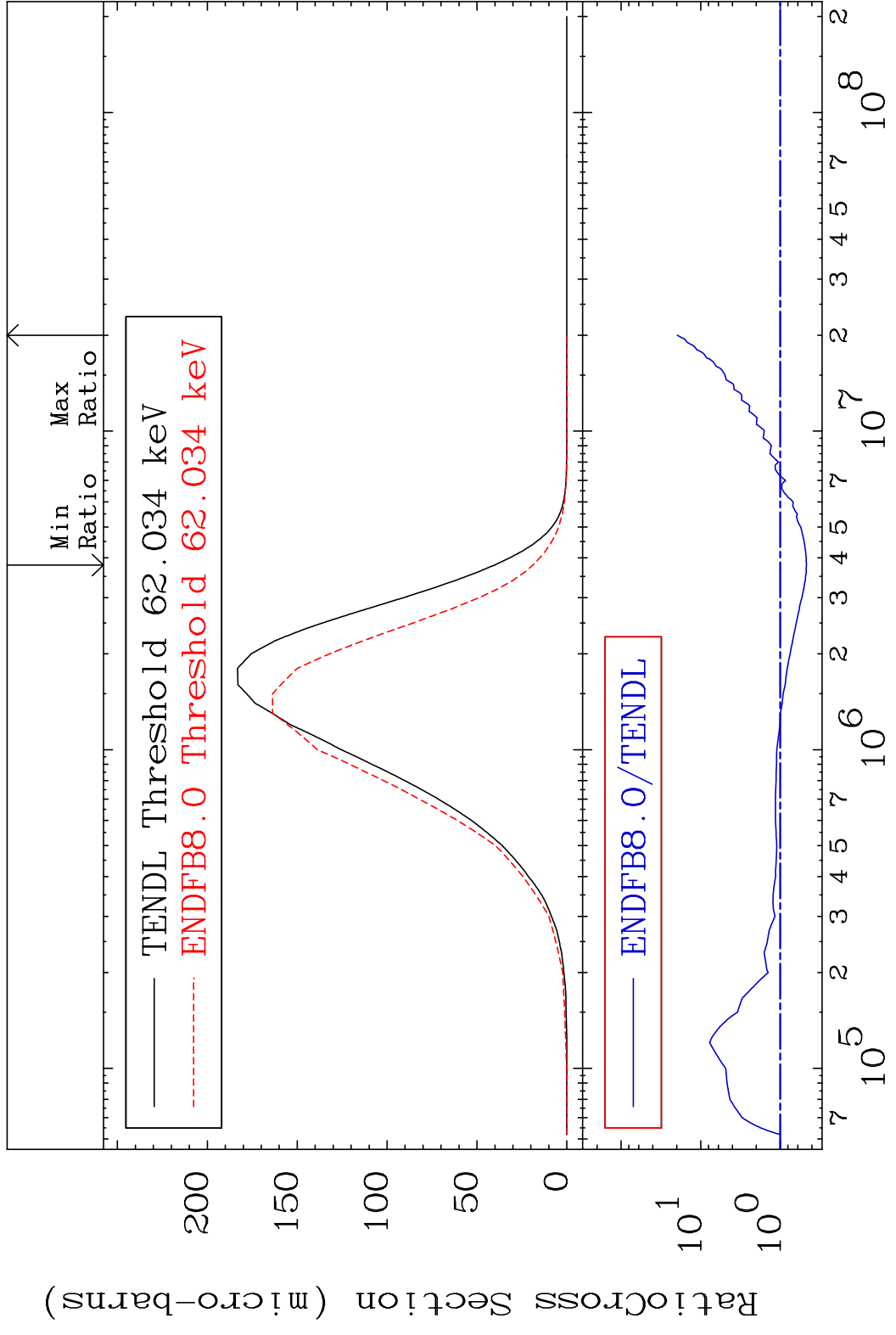


MAT 7529 MT= 56 (n,n') Level 75-Re-186m  
 Cross Section -57.48 To 1808. %

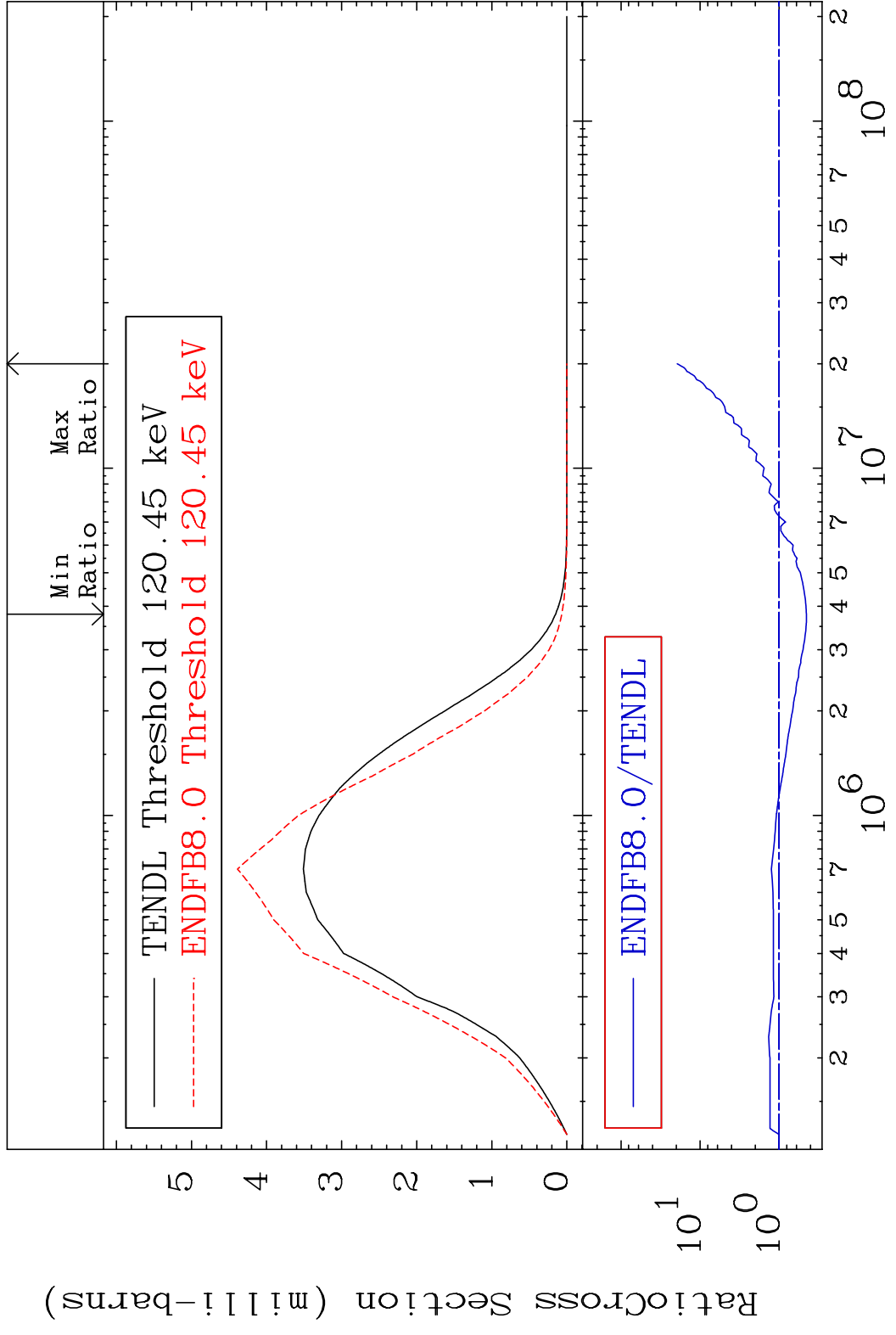


10 Incident Energy (eV) 75-Re-186m

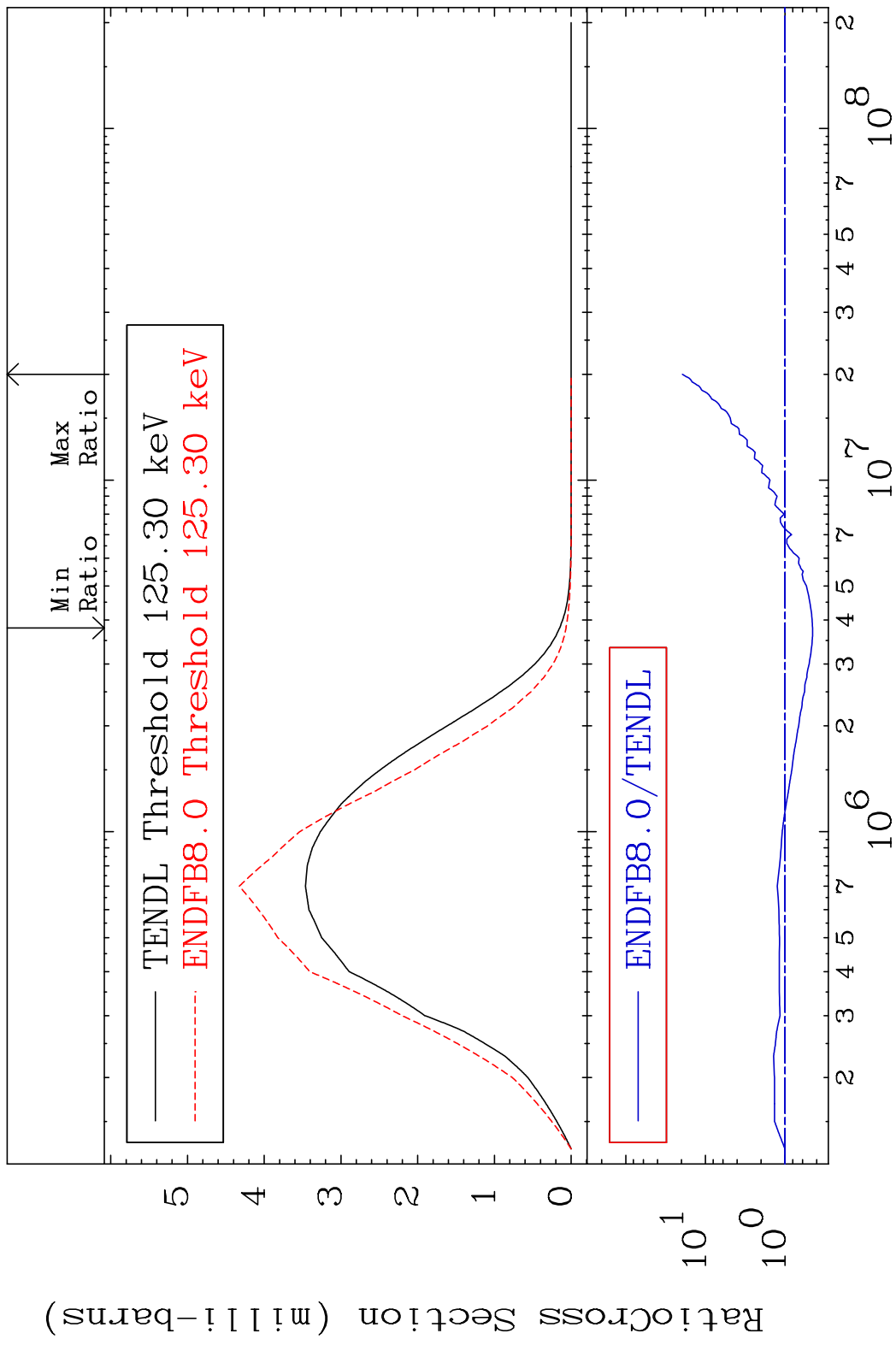
MAT 7529 MT= 57 (n,n') Level 75-Re-186m  
 Cross Section -53.04 To 1872. %



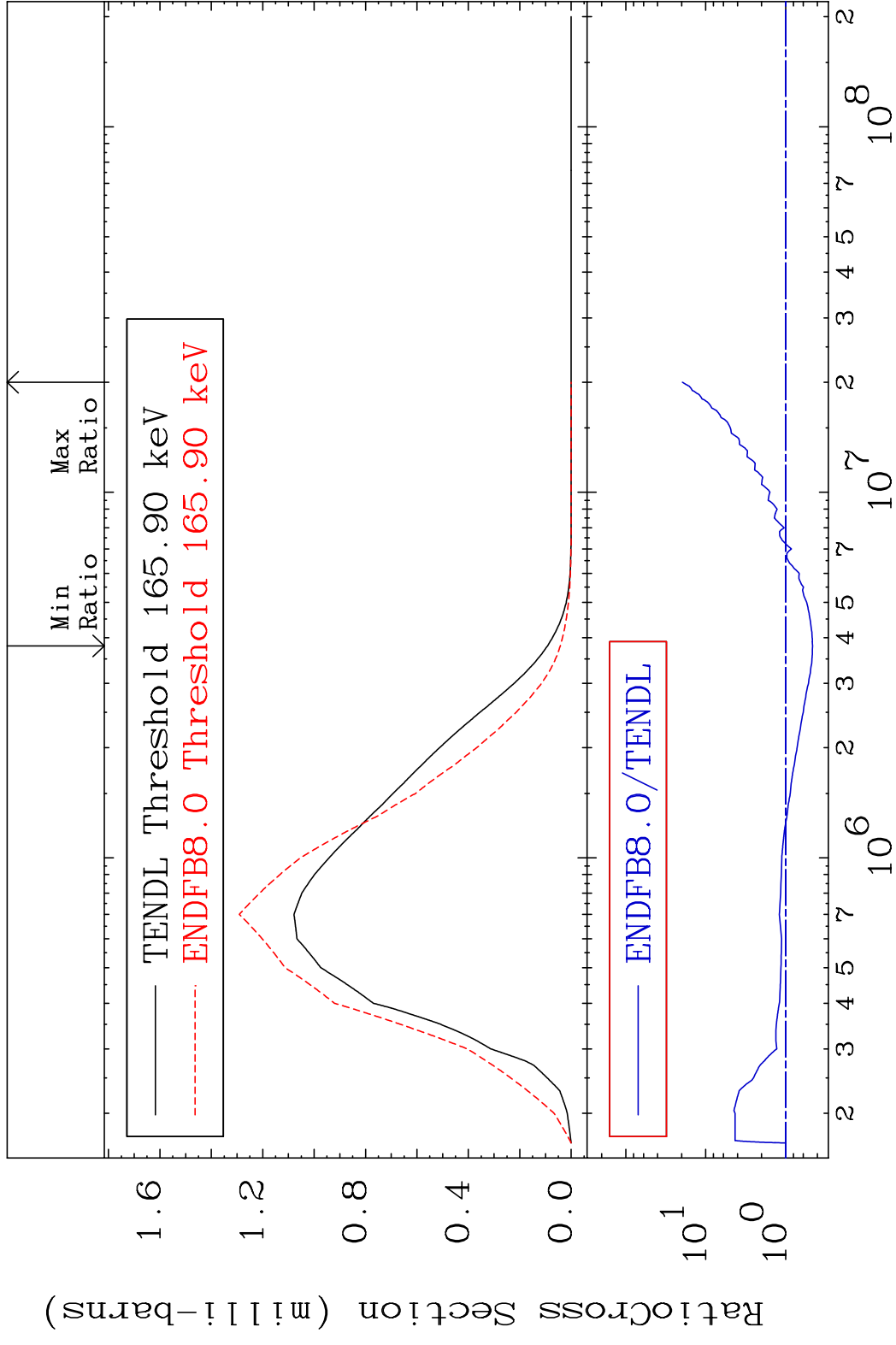
MAT 7529 MT= 58 (n, n') Level 75-Re-186m  
 Cross Section -54.90 To 1845. %



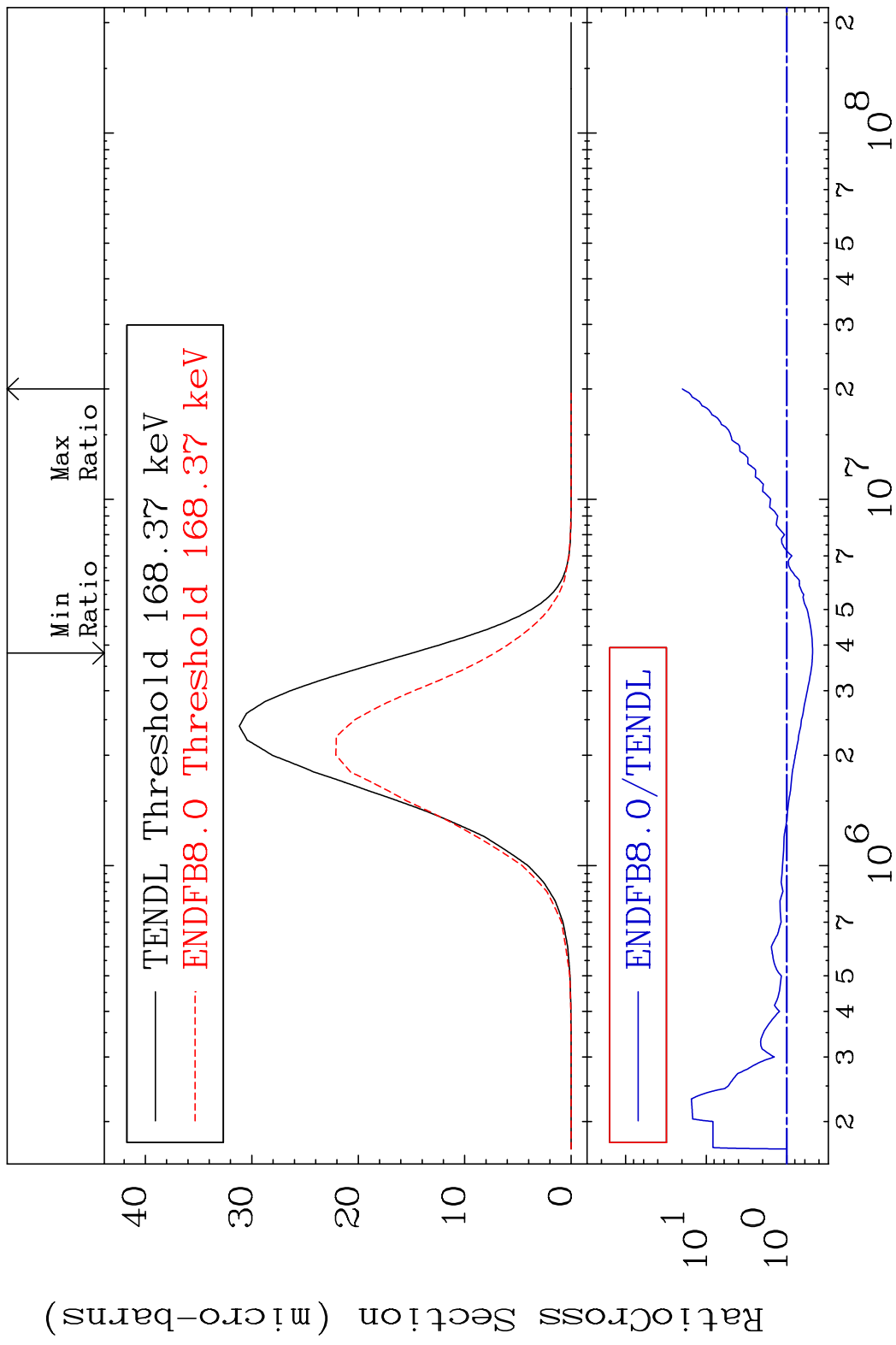
MAT 7529 MT= 59 (n, n') Level 75-Re-186m  
 Cross Section -54.90 To 1845. %



MAT 7529 MT= 60 (n, n') Level 75-Re-186m  
 Cross Section -53.97 To 1861. %

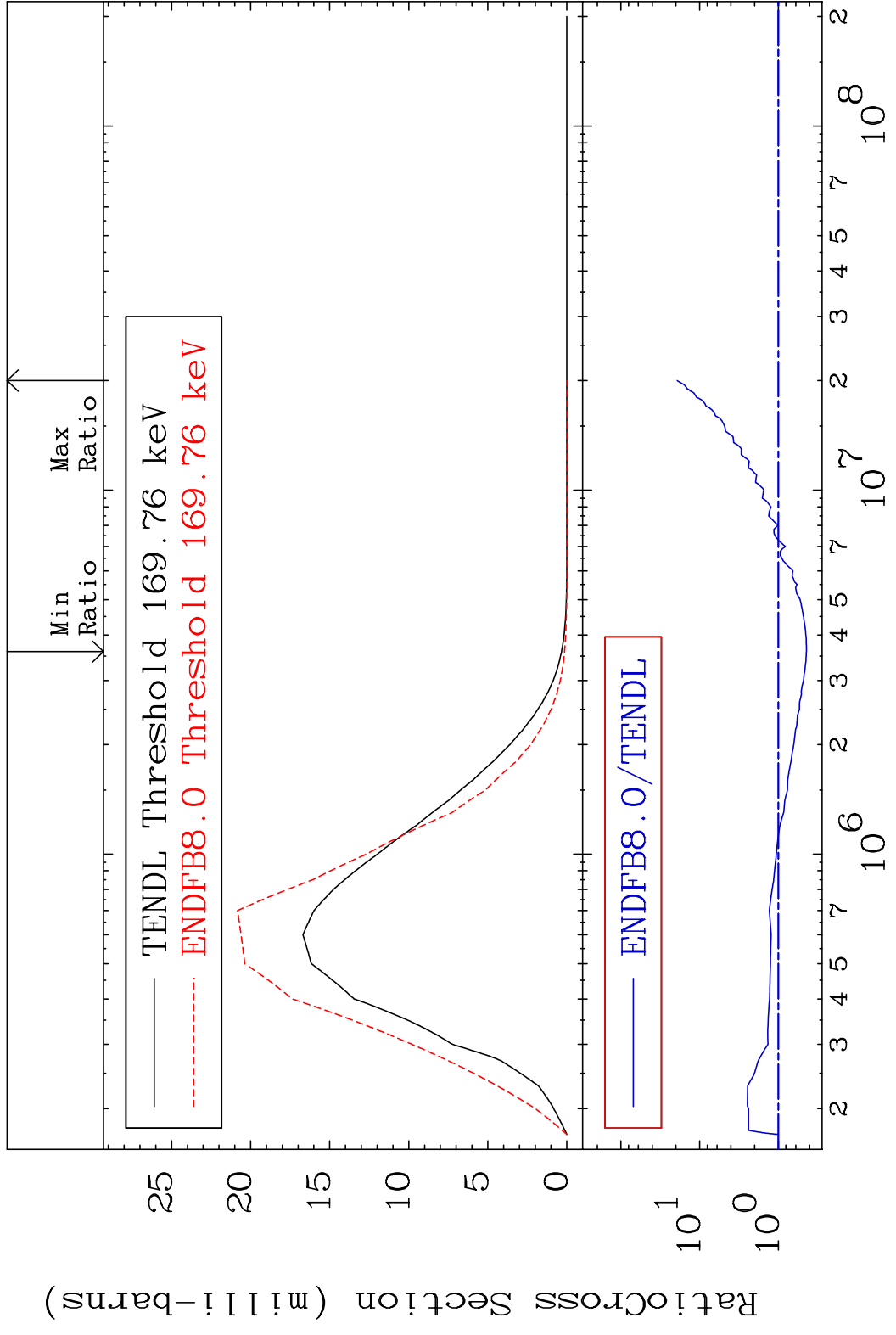


MAT 7529 MT= 61 (n, n') Level 75-Re-186m  
 Cross Section -51.91 To 1881. %



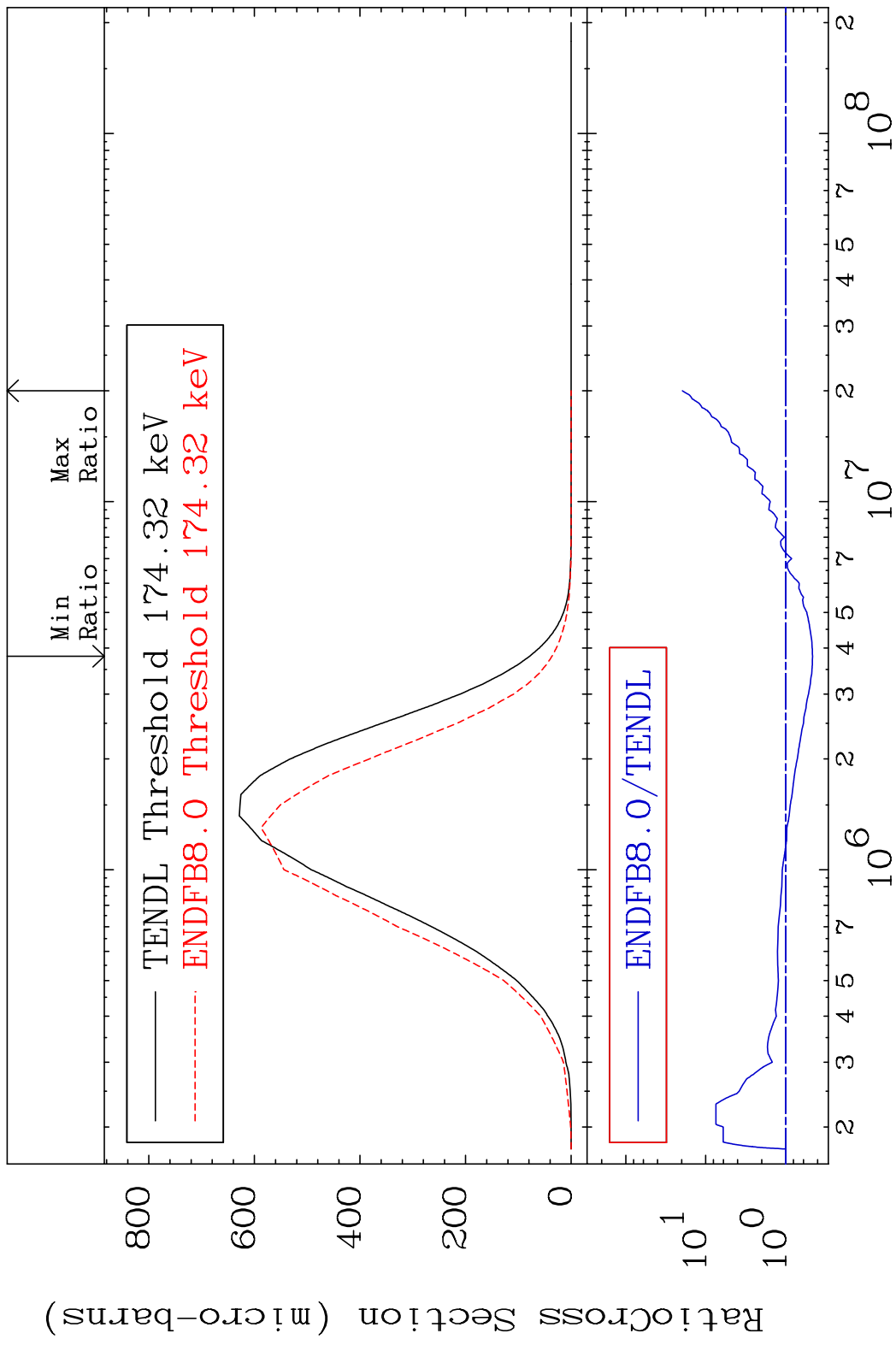


MAT 7529 MT= 62 (n, n') Level 75-Re-186m  
 Cross Section -56.09 To 1828. %



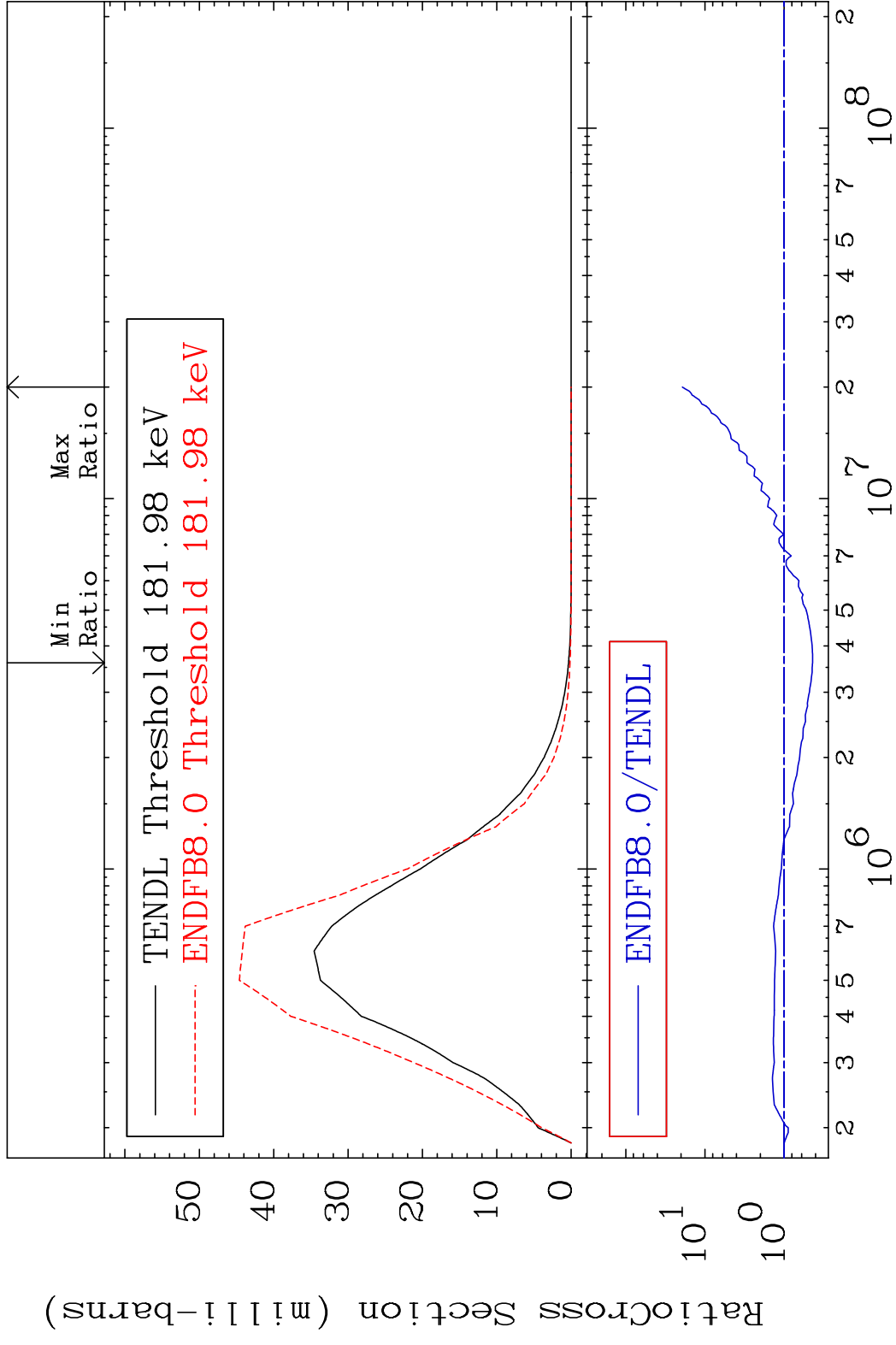
16 Incident Energy (eV) 75-Re-186m

MAT 7529 MT= 63 (n, n') Level 75-Re-186m  
 Cross Section -53.77 To 1861. %



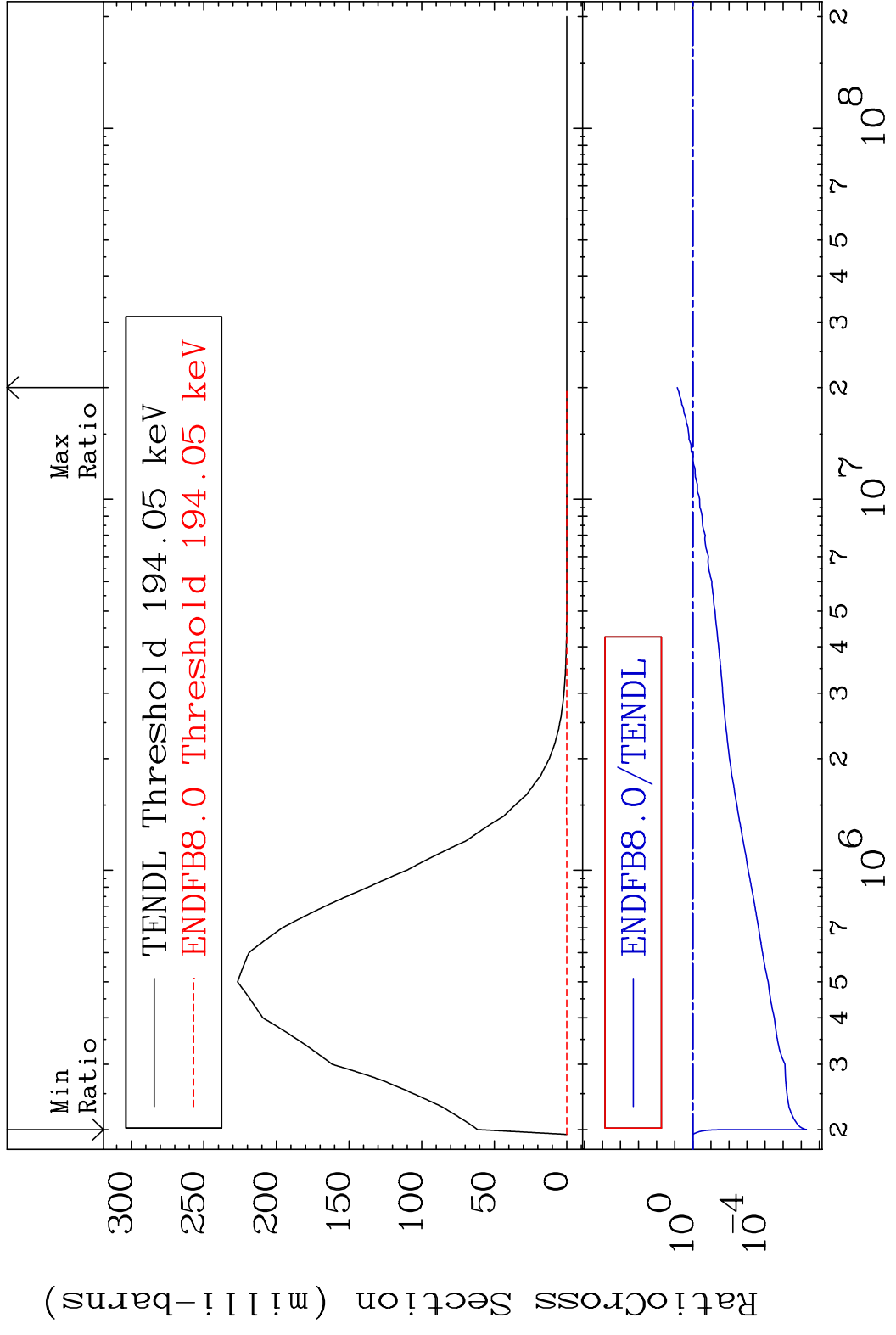
17 Incident Energy (eV) 75-Re-186m

MAT 7529 MT= 64 (n, n') Level 75-Re-186m  
 Cross Section -56.21 To 1828. %

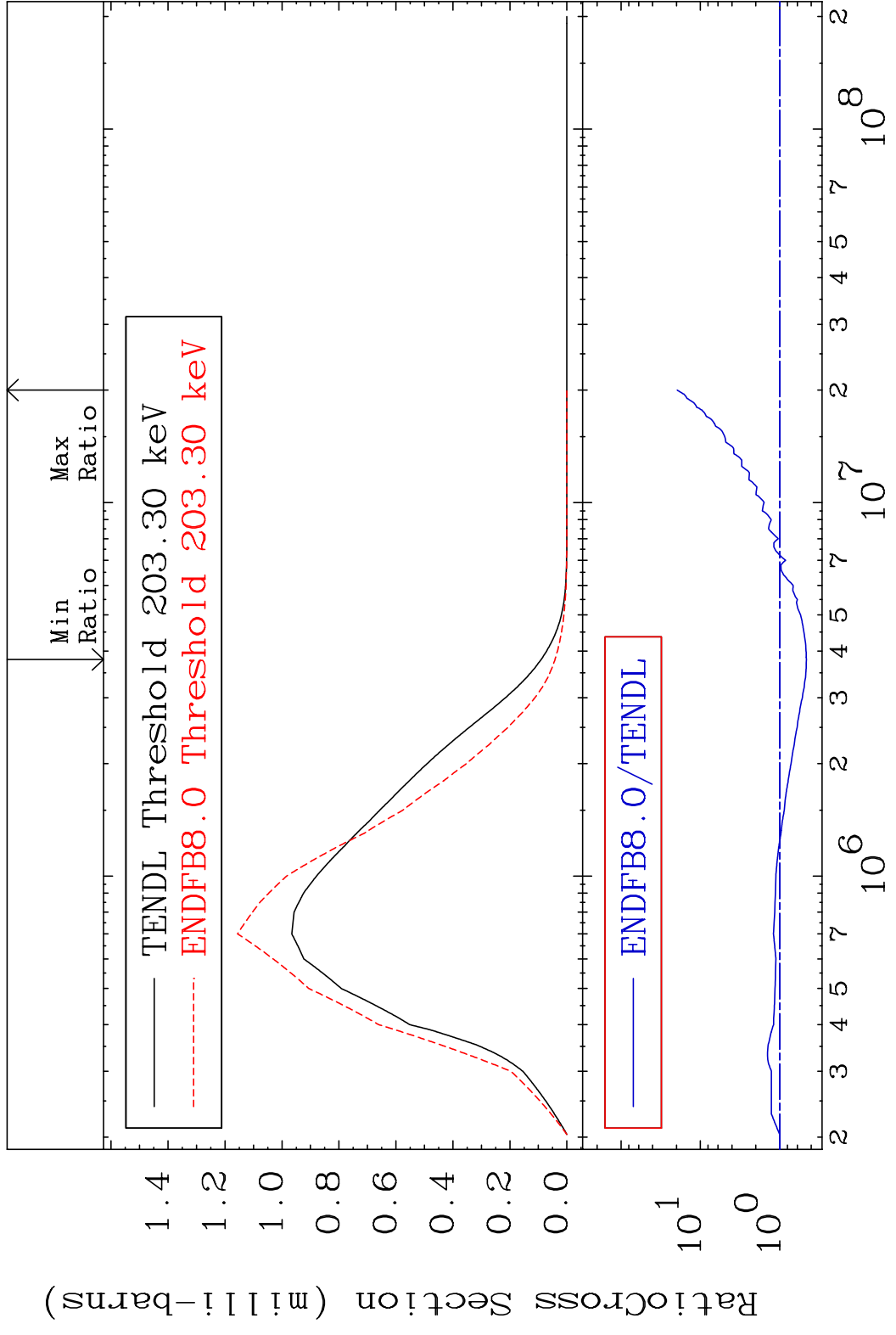


18 Incident Energy (eV) 75-Re-186m

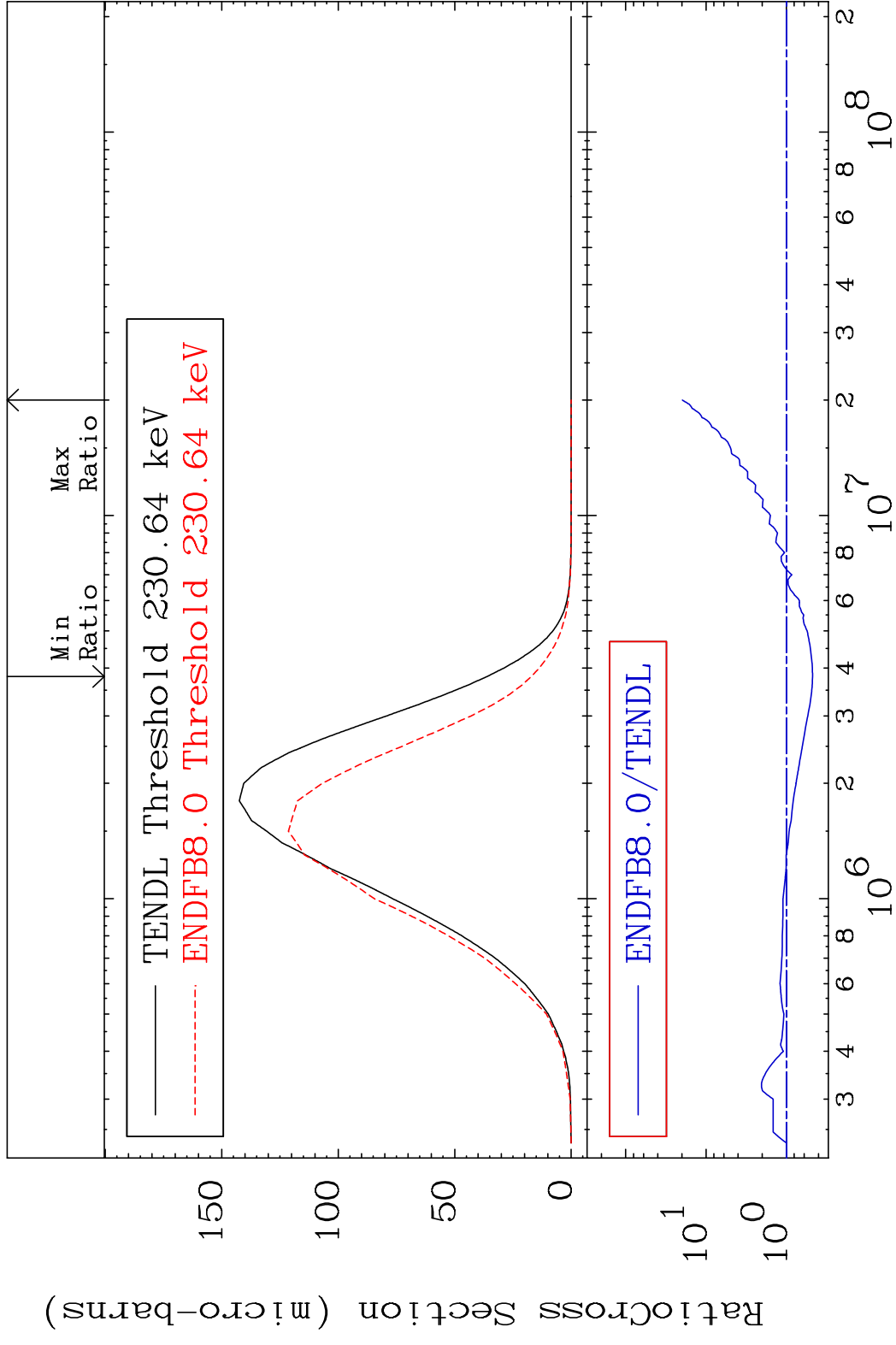
MAT 7529 MT= 65 (n, n') Level 75-Re-186m  
 Cross Section -100.0 To 631.3 %



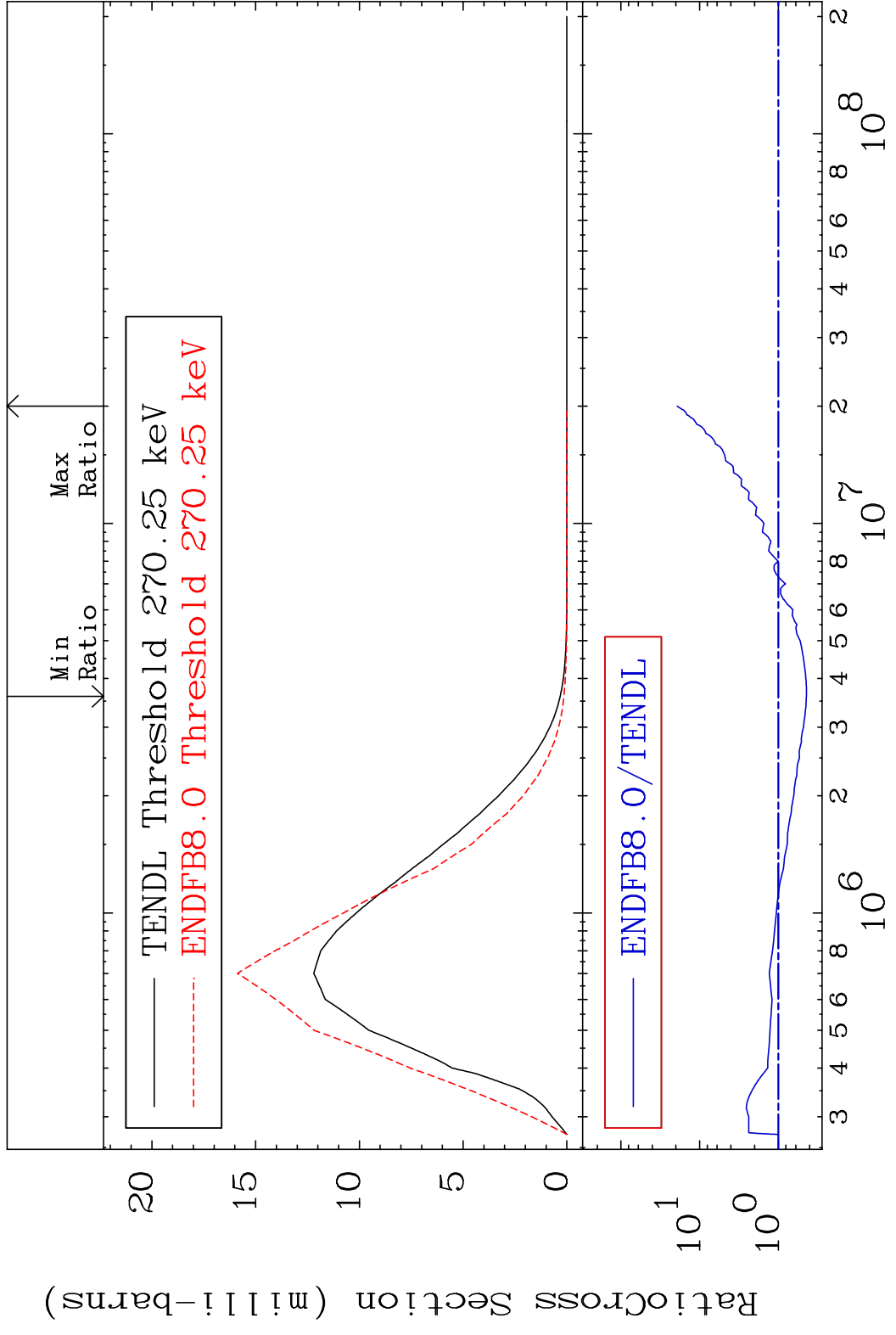
MAT 7529 MT= 66 (n, n') Level 75-Re-186m  
 Cross Section -53.91 To 1861. %



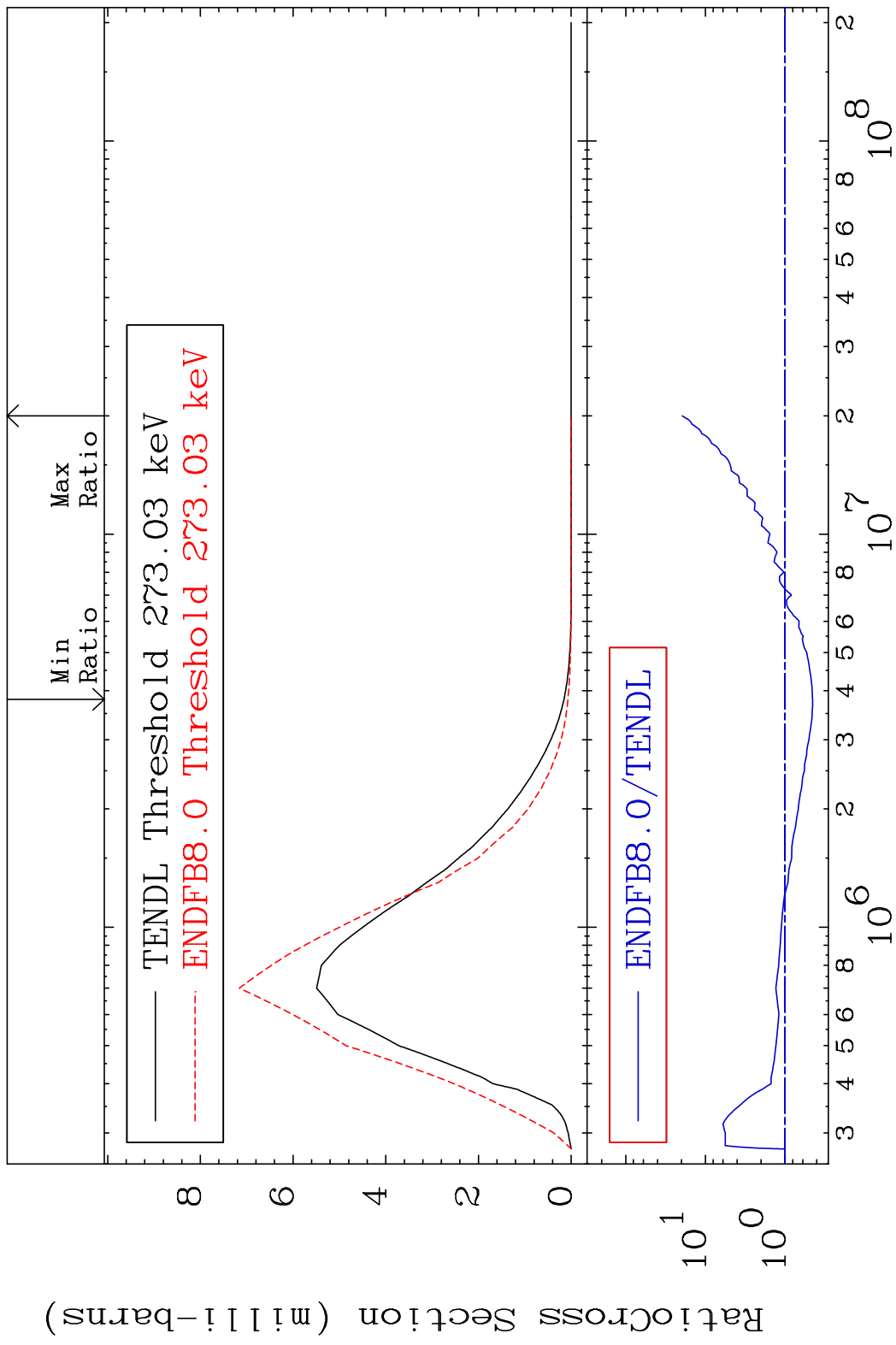
MAT 7529 MT= 67 (n, n') Level 75-Re-186m  
 Cross Section -52.68 To 1873. %



MAT 7529 MT= 68 (n, n') Level 75-Re-186m  
 Cross Section -56.01 To 1828. %

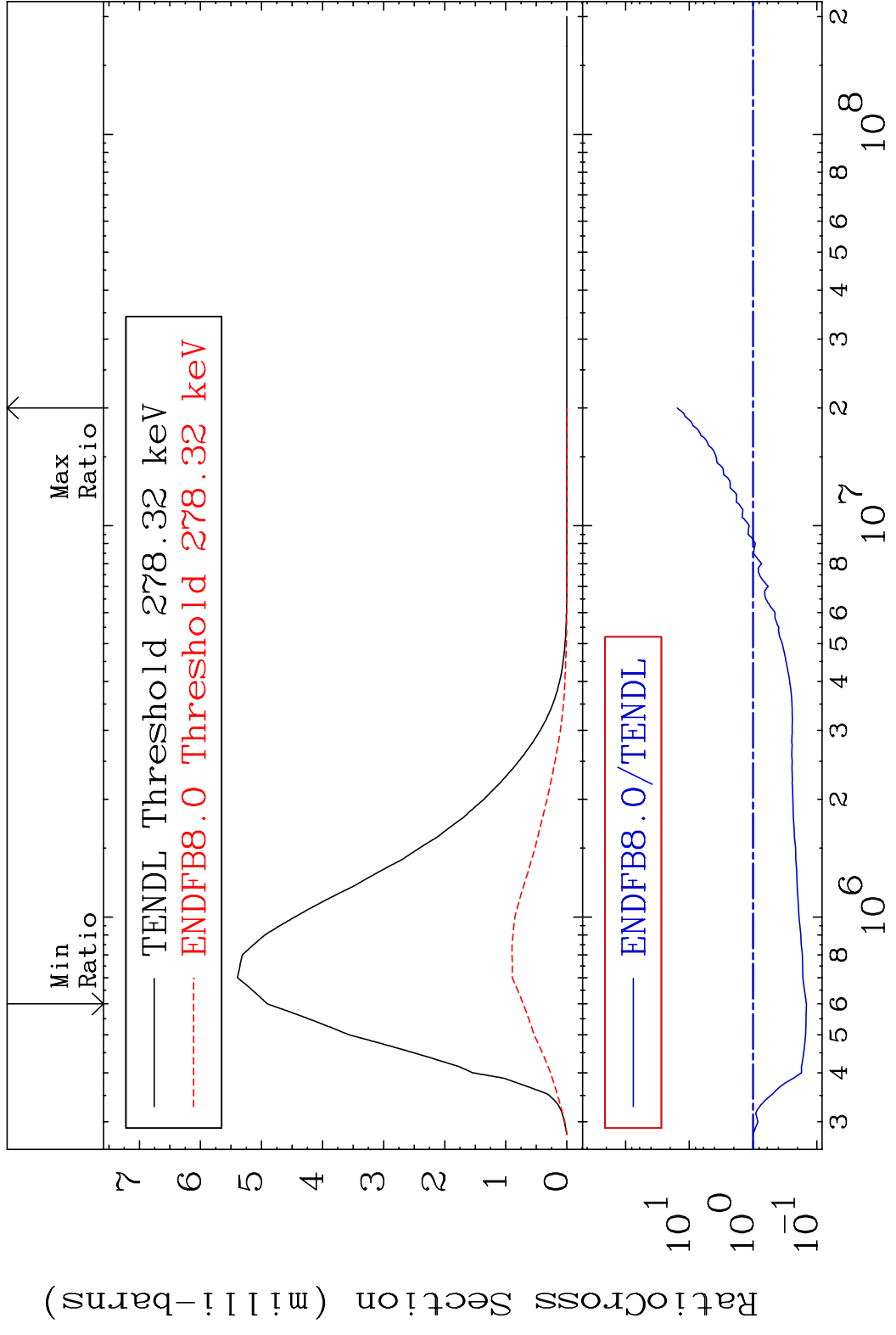


MAT 7529 MT= 69 (n, n') Level 75-Re-186m  
 Cross Section -54.87 To 1846. %

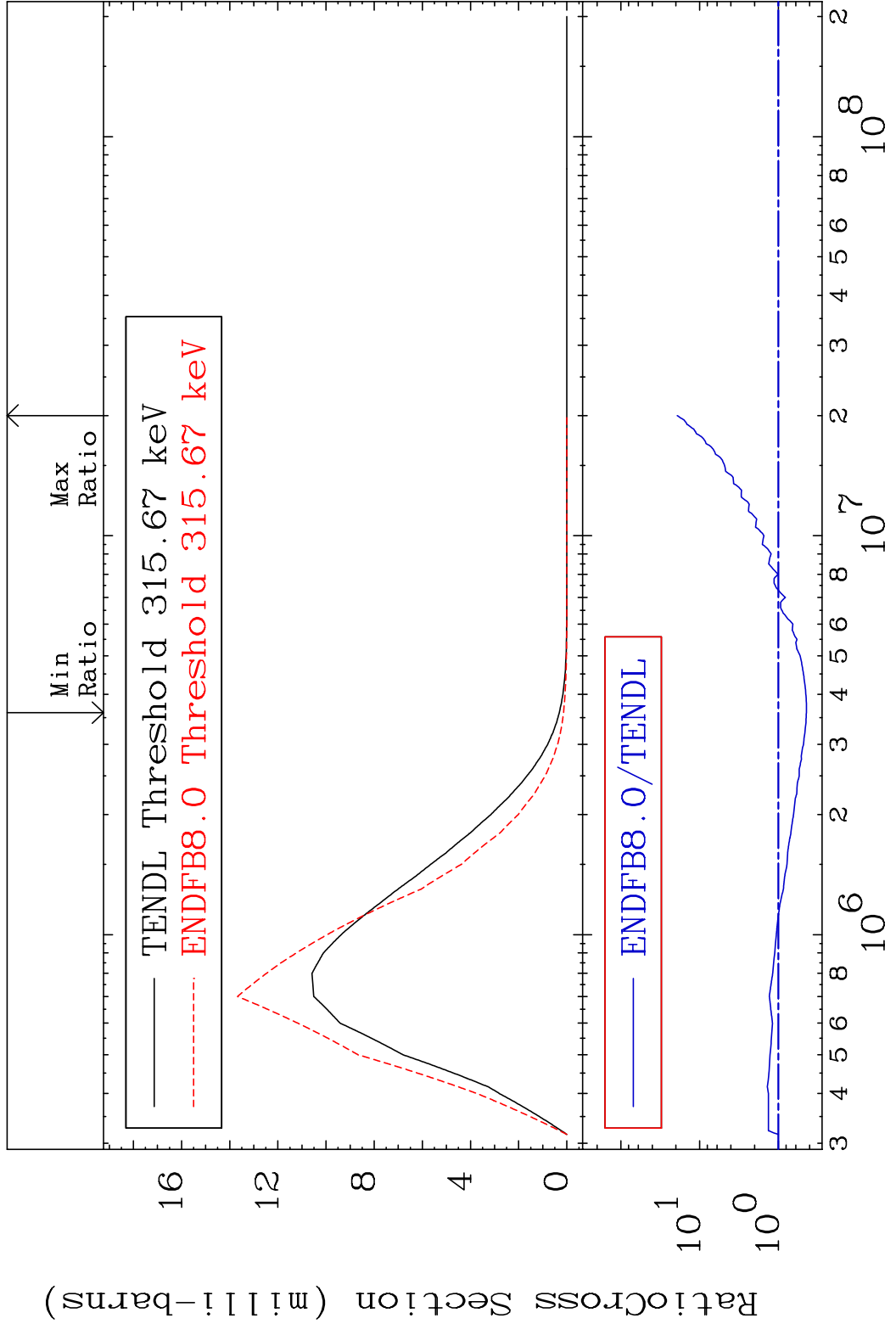




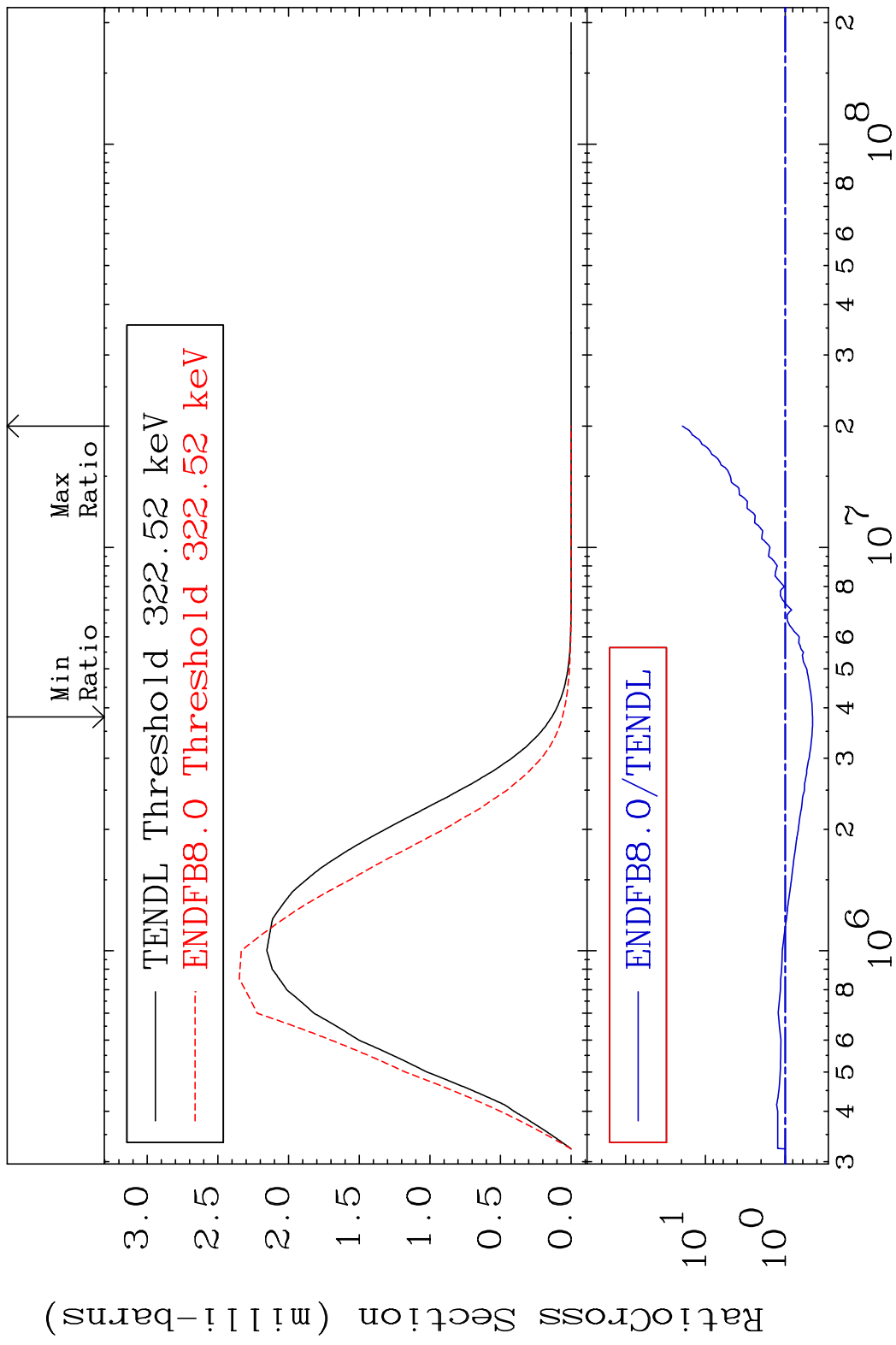
MAT 7529 MT= 70 (n,n') Level 75-Re-186m  
 Cross Section -85.43 To 1448. %



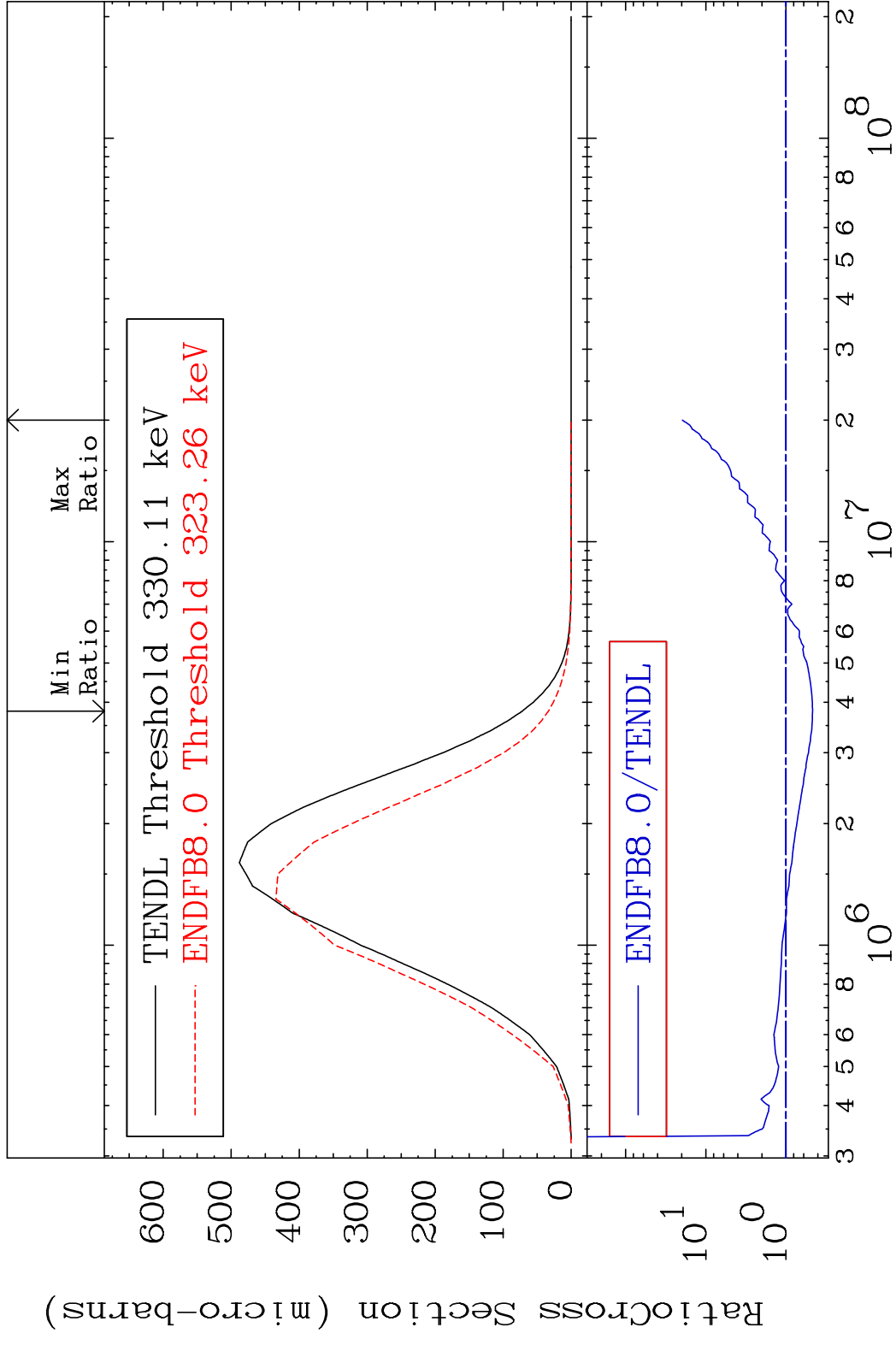
MAT 7529 MT= 71 (n, n') Level 75-Re-186m  
 Cross Section -55.97 To 1828. %



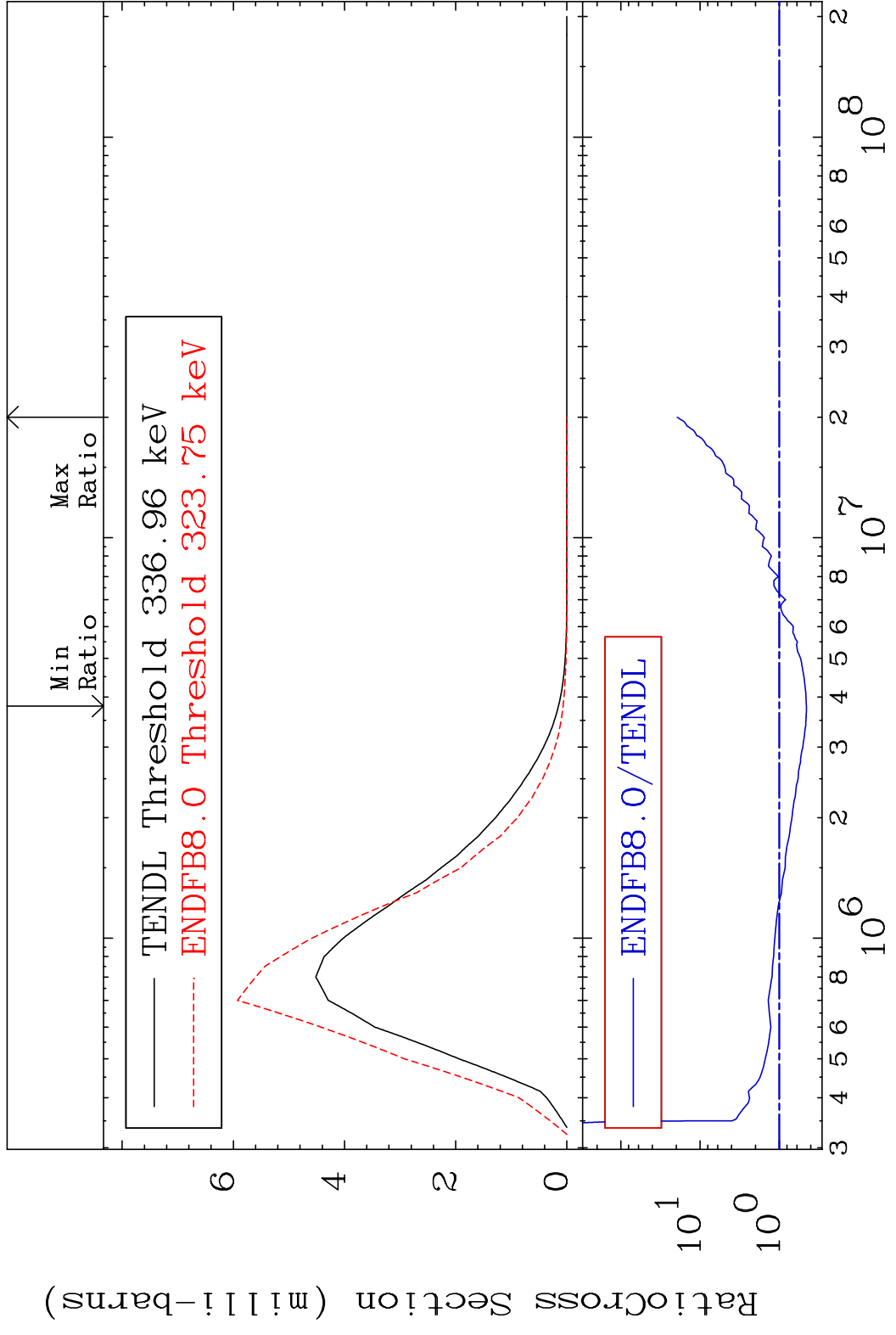
MAT 7529 MT= 72 (n, n') Level 75-Re-186m  
 Cross Section -54.68 To 1846. %



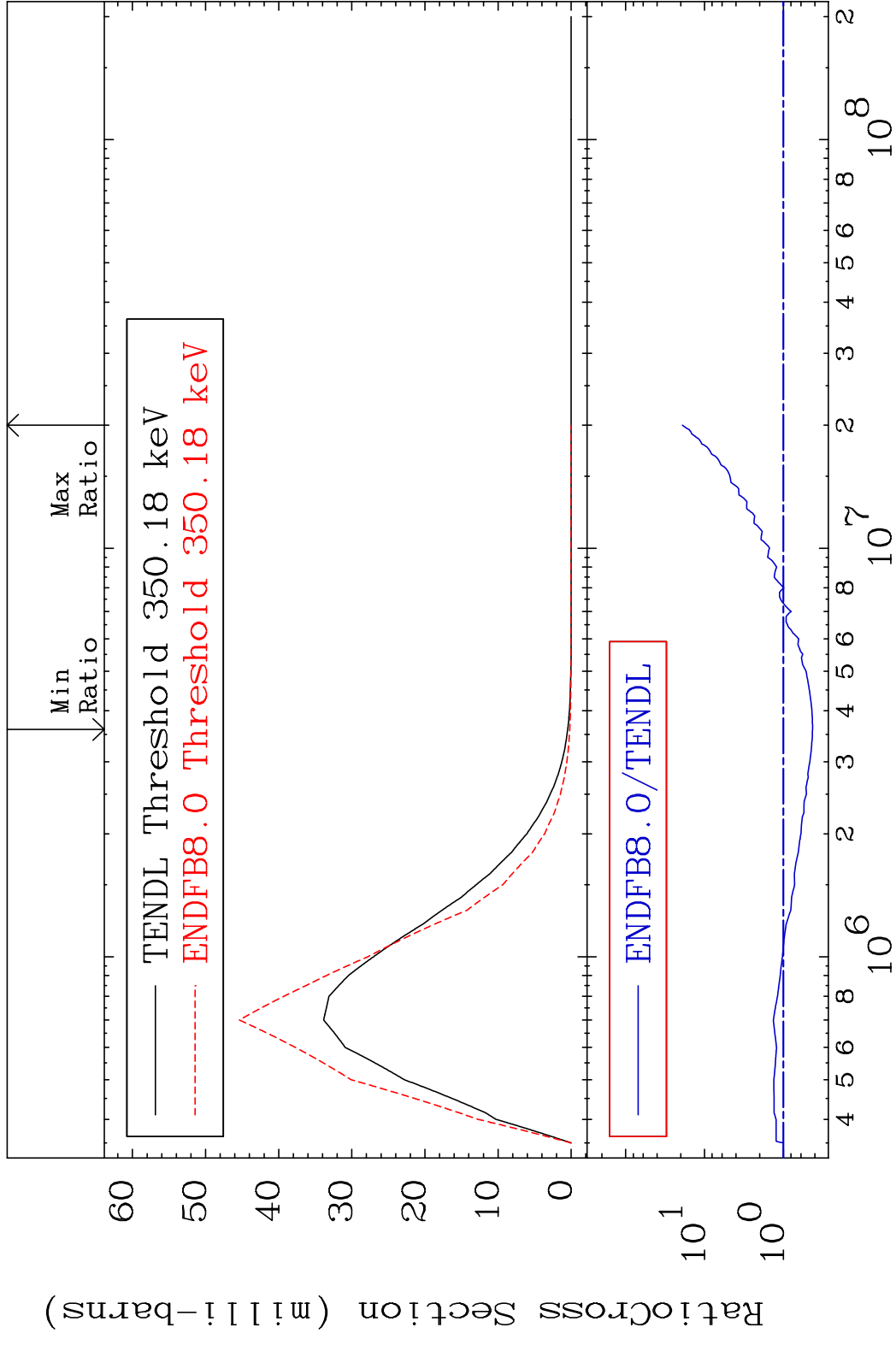
MAT 7529 MT= 73 (n, n') Level 75-Re-186m  
 Cross Section -53.33 To 1862. %



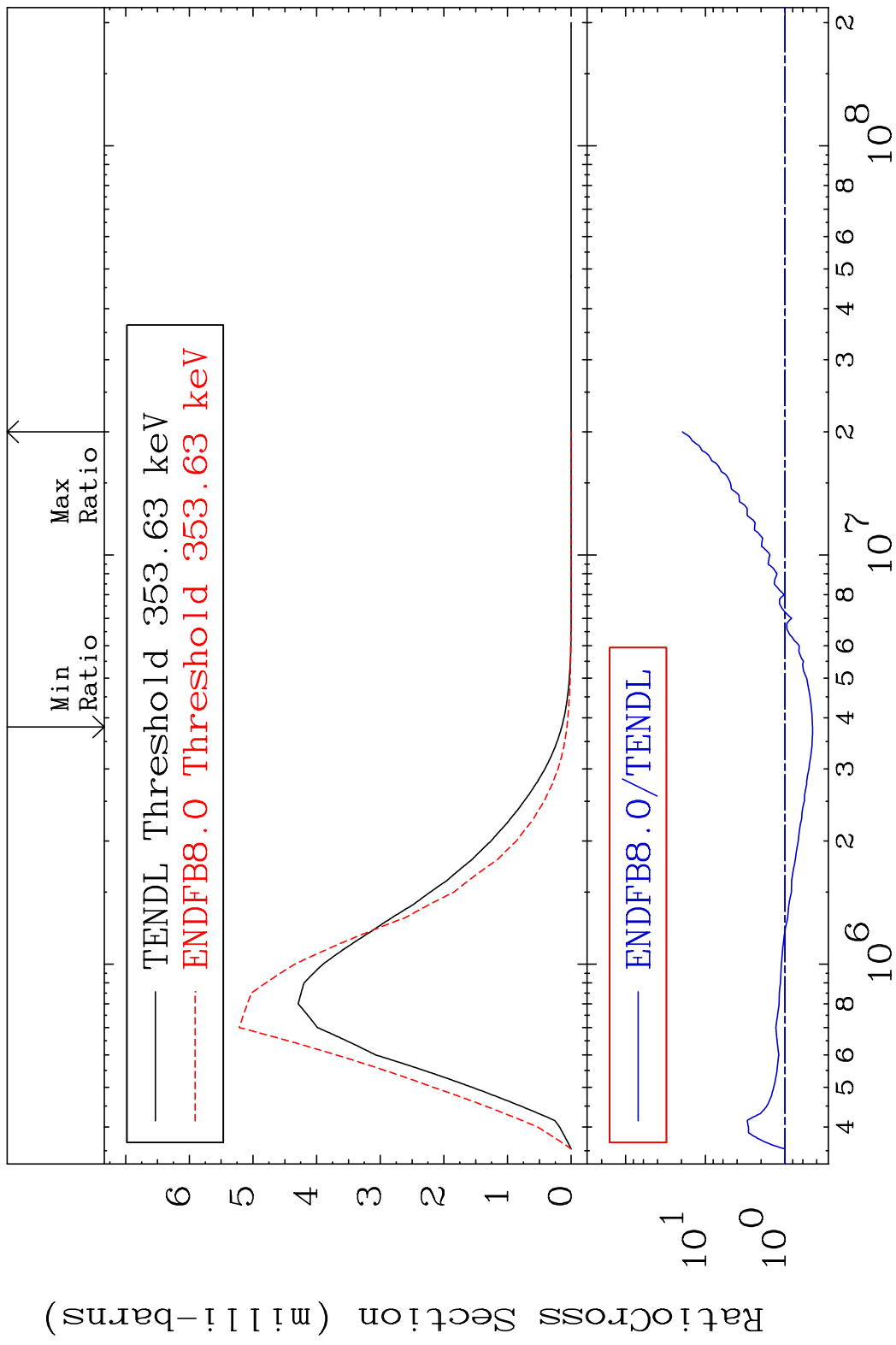
MAT 7529 MT= 74 (n, n') Level 75-Re-186m  
 Cross Section -54.47 To 1847. %



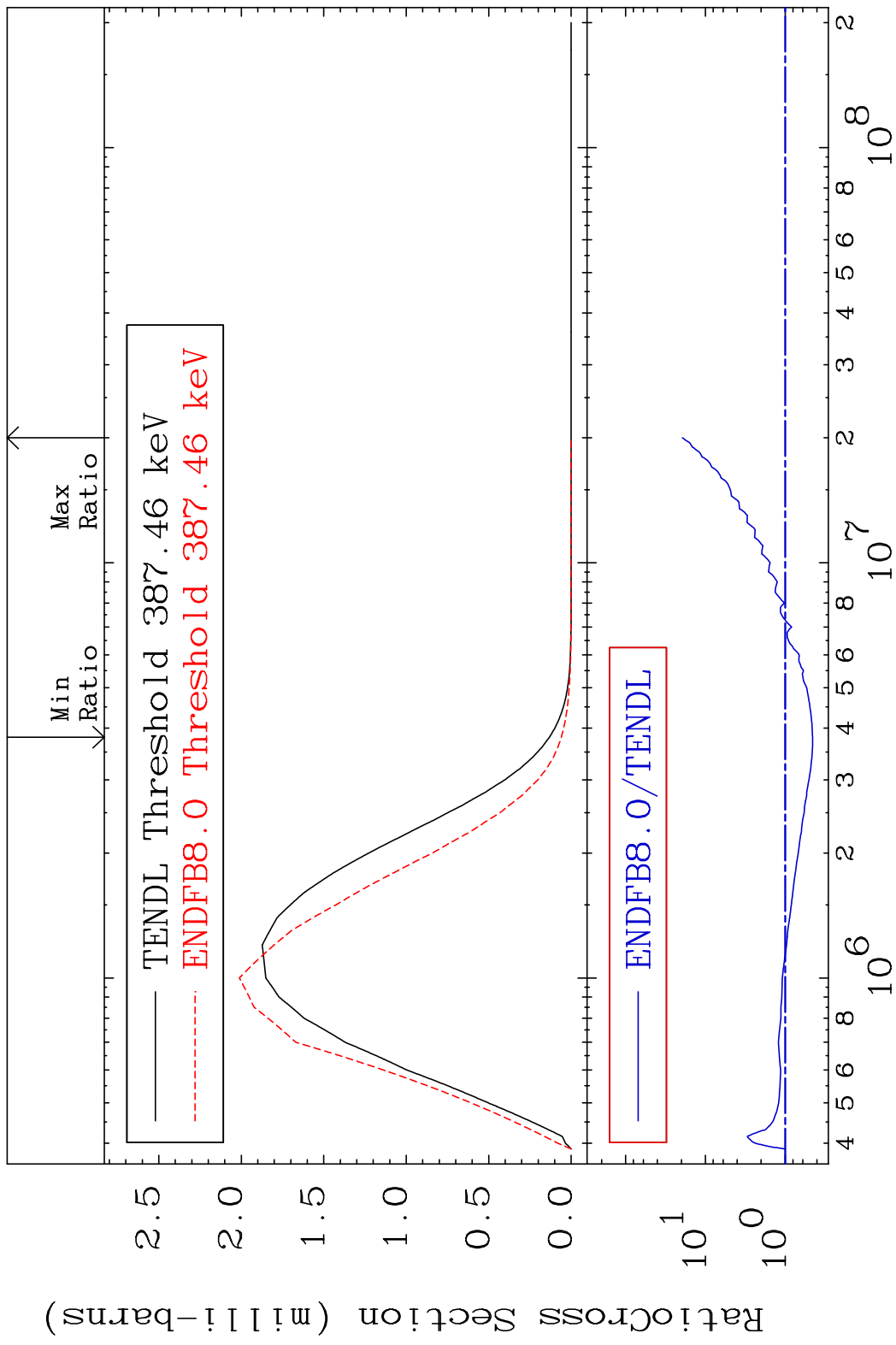
MAT 7529 MT= 75 (n,n') Level 75-Re-186m  
 Cross Section -57.30 To 1808. %



MAT 7529 MT= 76 (n, n') Level 75-Re-186m  
 Cross Section -54.77 To 1846. %

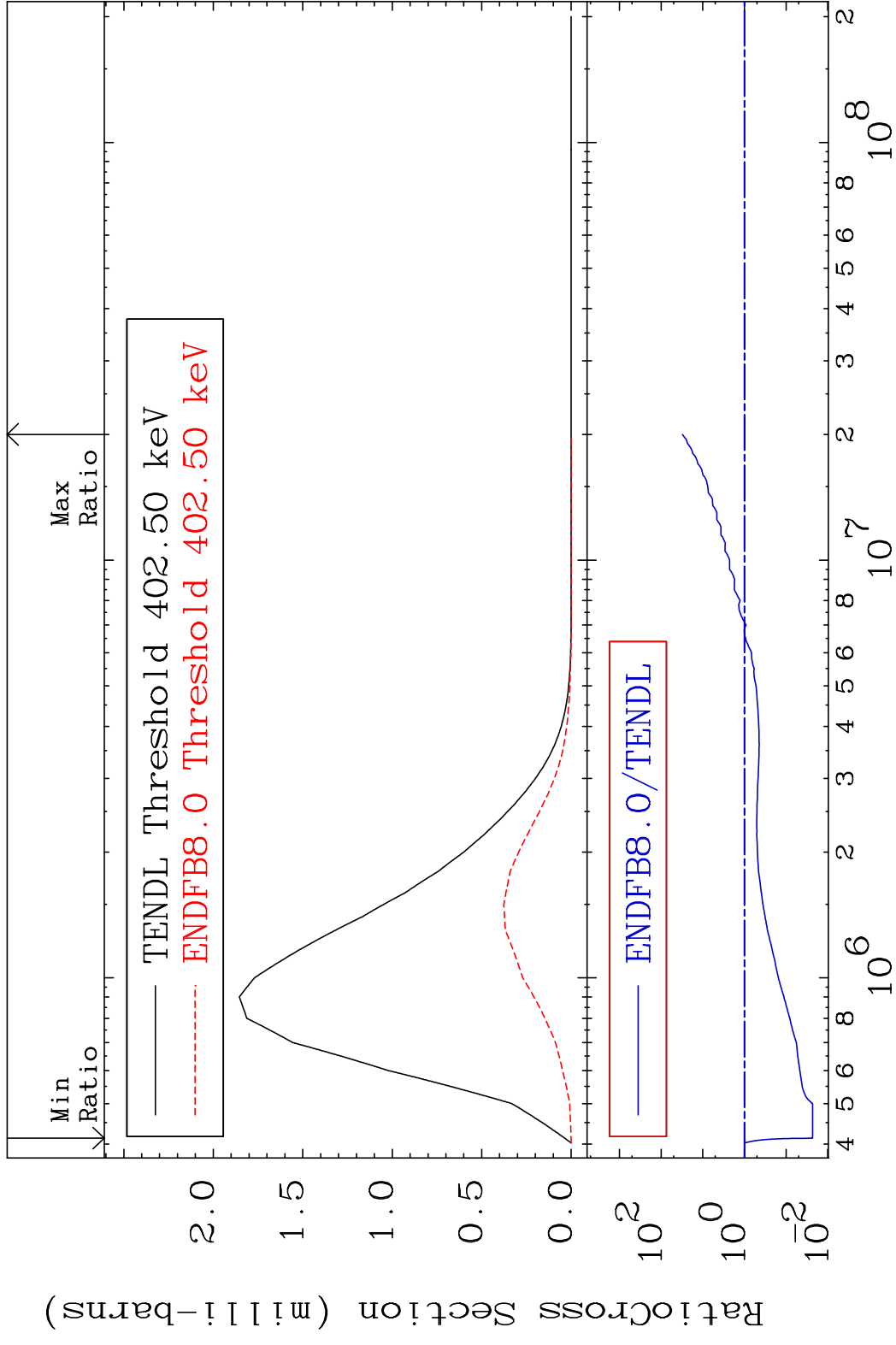


MAT 7529 MT= 77 (n, n') Level 75-Re-186m  
 Cross Section -54.62 To 1846. %

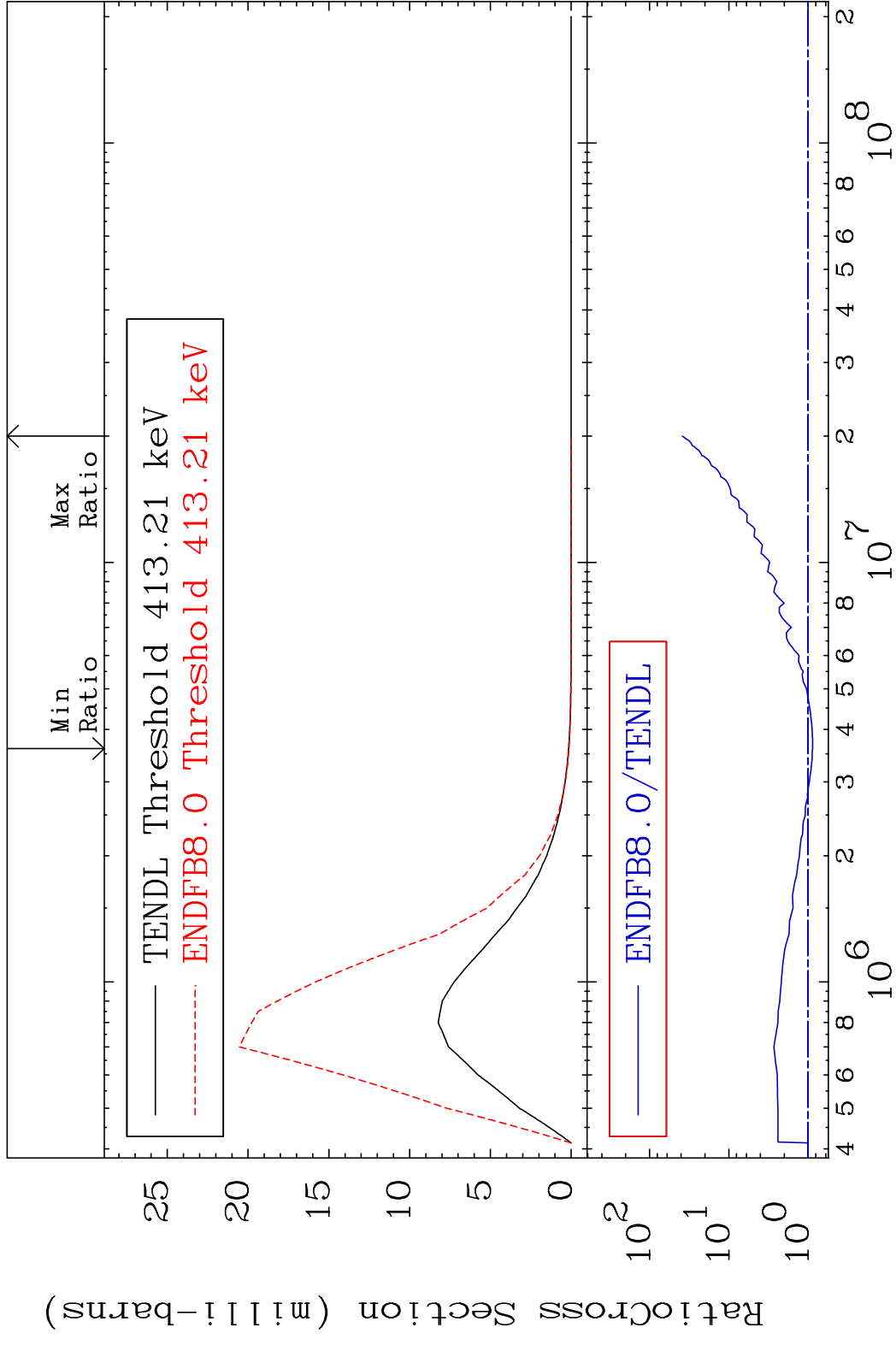




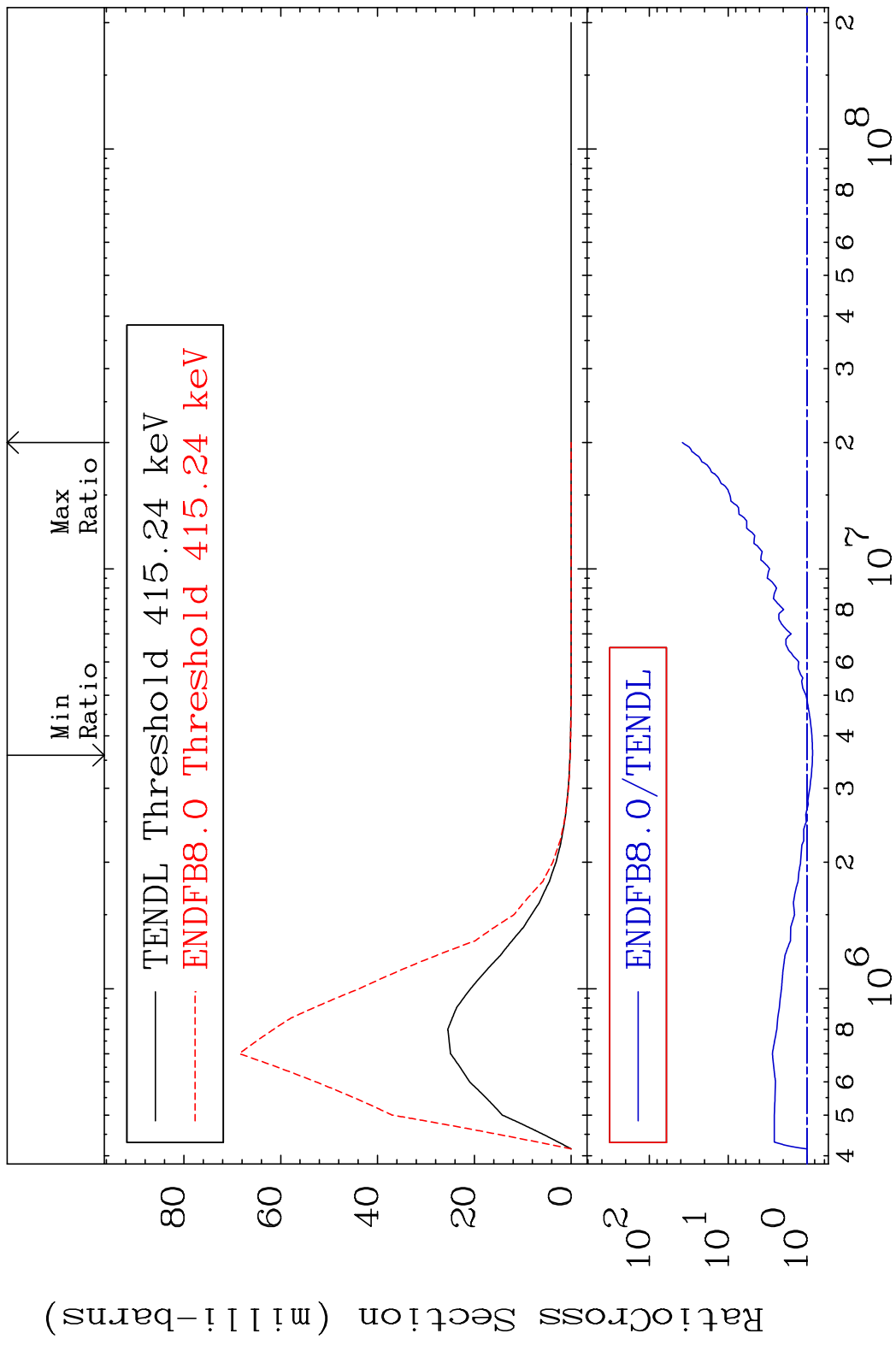
MAT 7529 MT= 78 (n, n') Level 75-Re-186m  
 Cross Section -97.69 To 2997. %



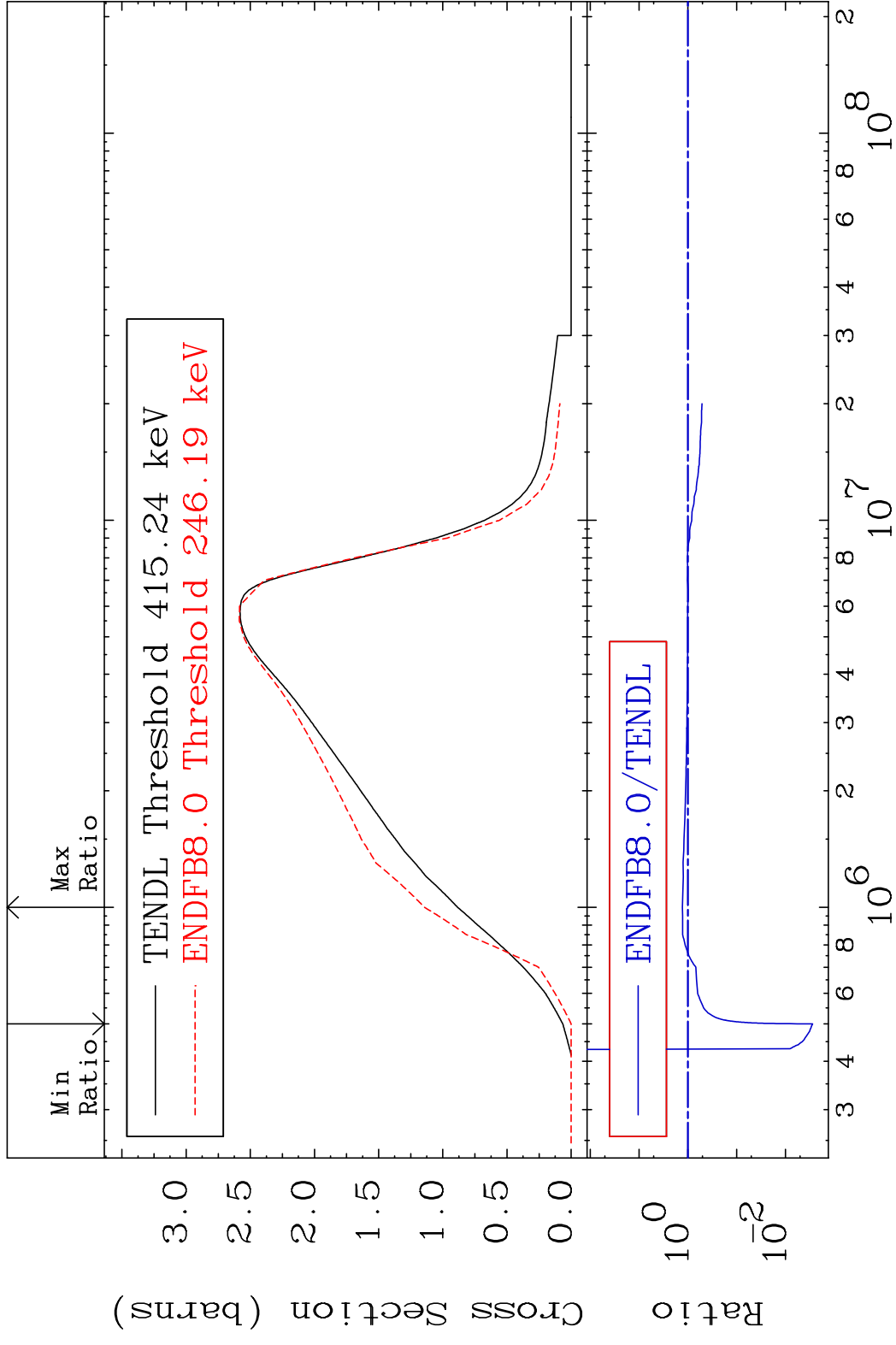
MAT 7529 MT= 79 (n, n') Level 75-Re-186m  
 Cross Section -12.01 To 3757. %



MAT 7529 MT= 80 (n, n') Level 75-Re-186m  
 Cross Section -14.95 To 3716. %



MAT 7529 (n,n') Continuum 75-Re-186m  
 Cross Section -99.72 To 29.11 %

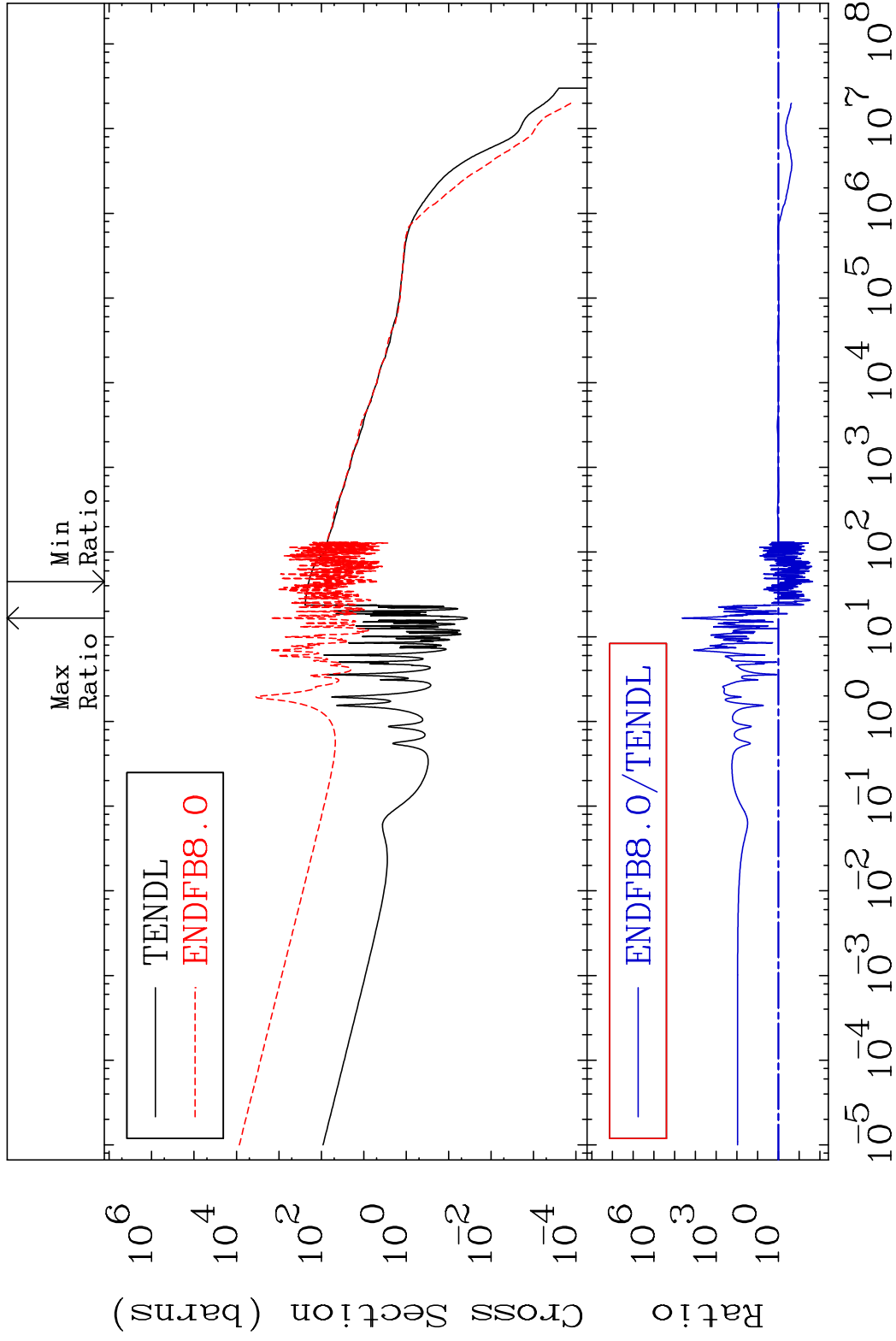


MAT 7529

(n,  $\gamma$ )

75-Re-186m

Cross Section -97.74 To 9999. %



36

Incident Energy (eV)

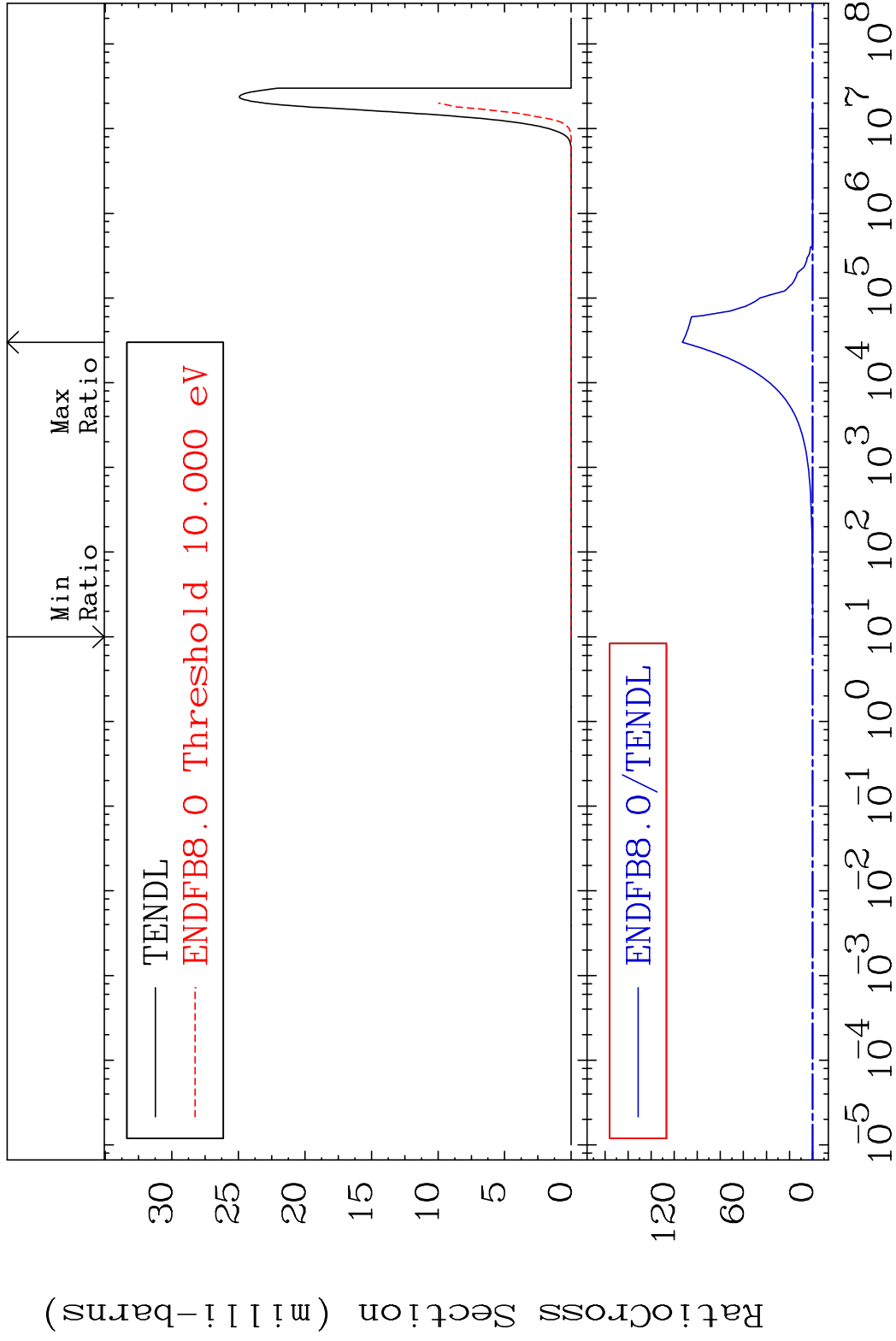
75-Re-186m

MAT 7529

(n, p)

75-Re-186m

Cross Section -100.0 To 9999. %

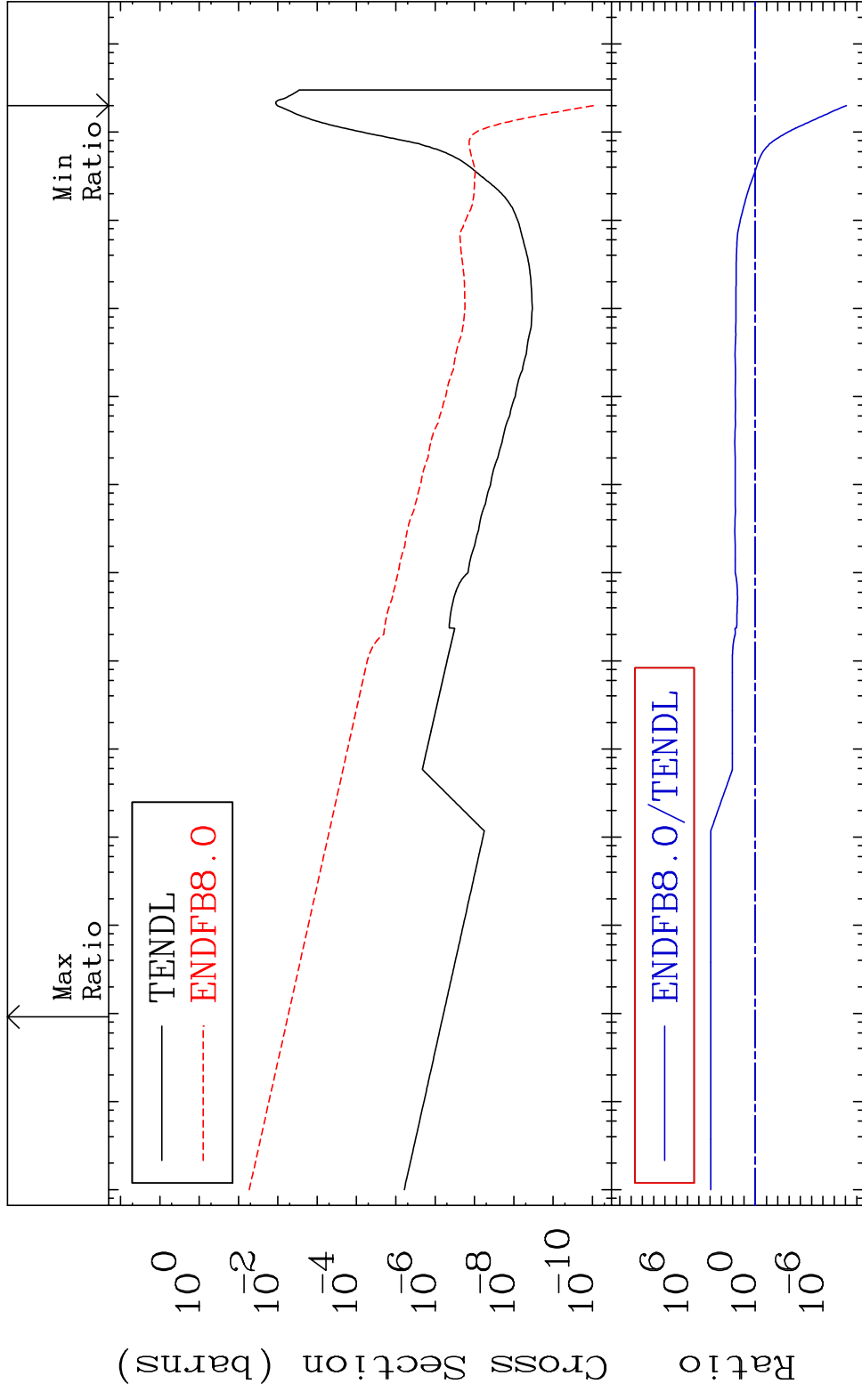


37

Incident Energy (eV)

75-Re-186m

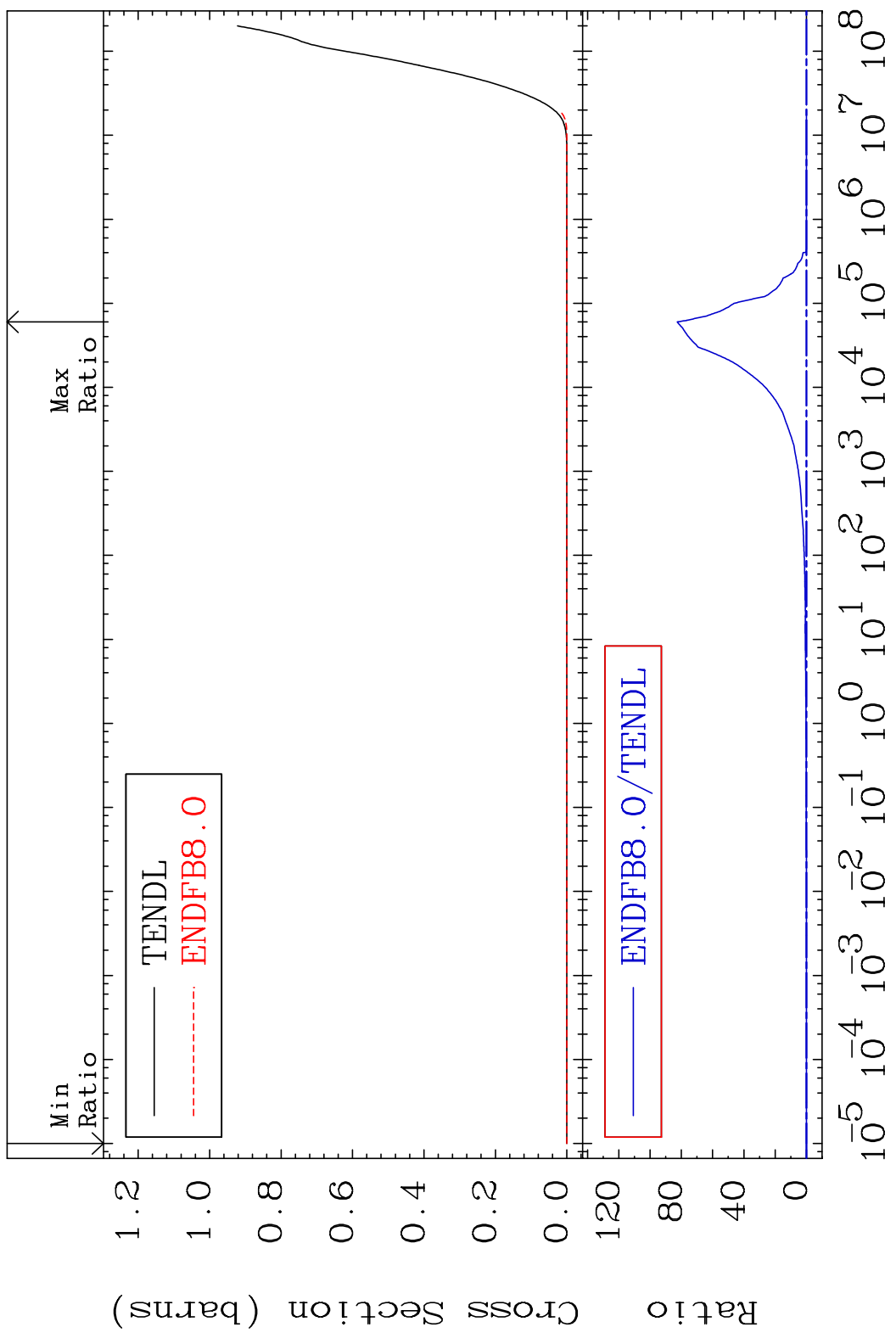
MAT 7529 (n,  $\alpha$ ) 75-Re-186m  
 Cross Section -100.0 To 9999. %



38 Incident Energy (eV) 75-Re-186m

MAT 7529

Hydrogen Production 75-Re-186m  
Cross Section -100.0 To 9999. %



39

Incident Energy (eV) 75-Re-186m

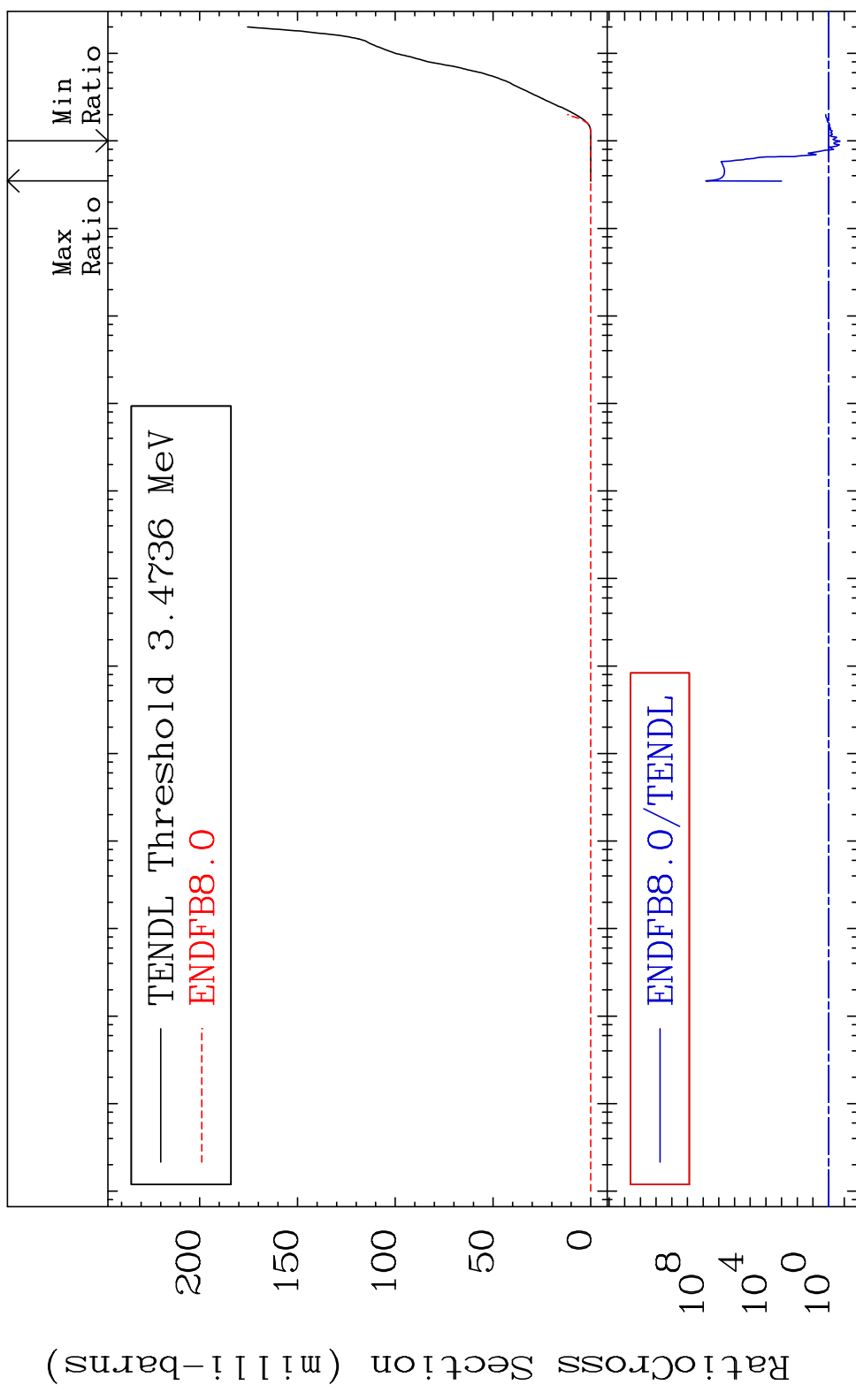


MAT 7529

Deuterium Production

75-Re-186m

Cross Section -82.43 To 9999. %

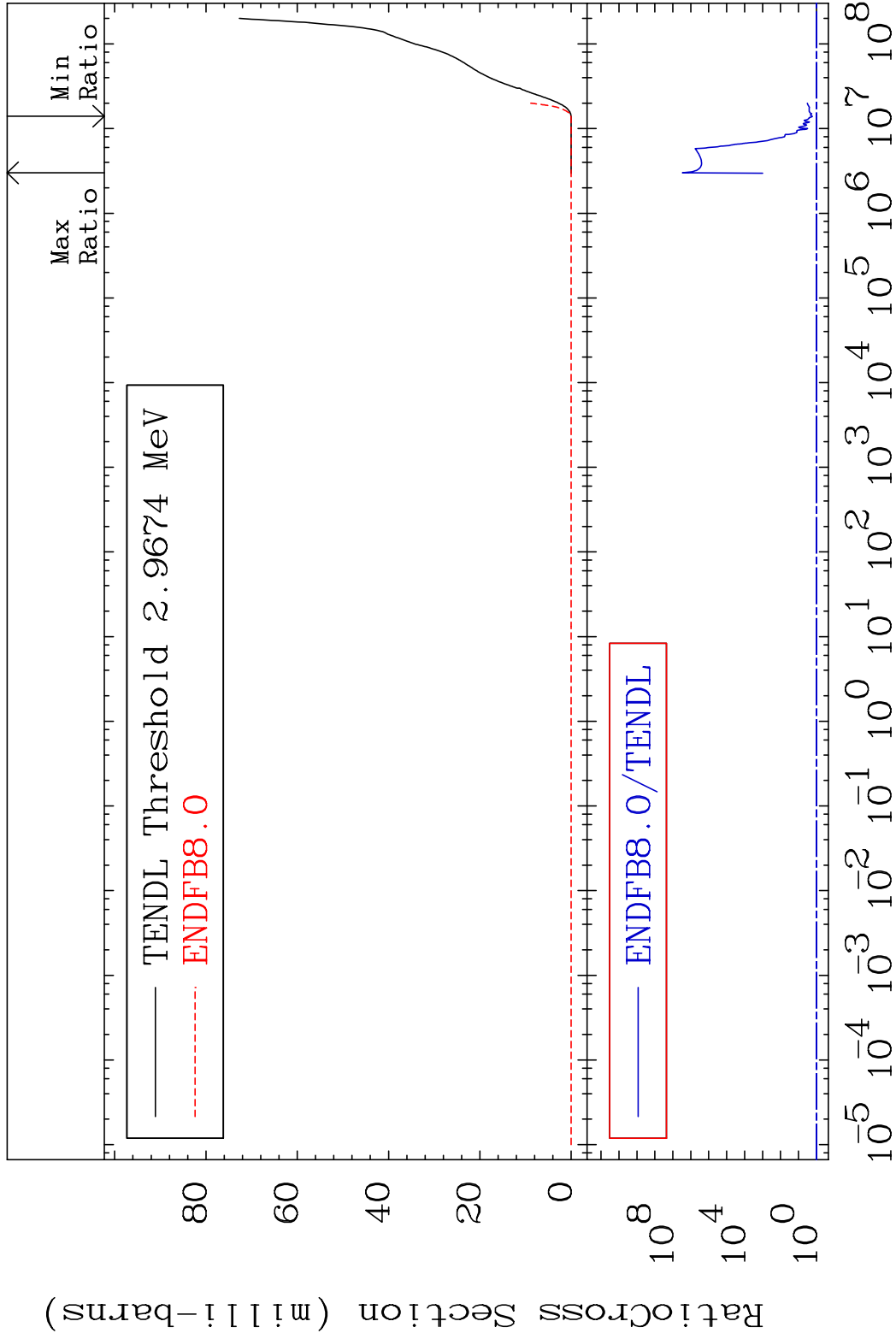


MAT 7529

Tritium Production

75-Re-186m

Cross Section 63.95 To 9999. %



41

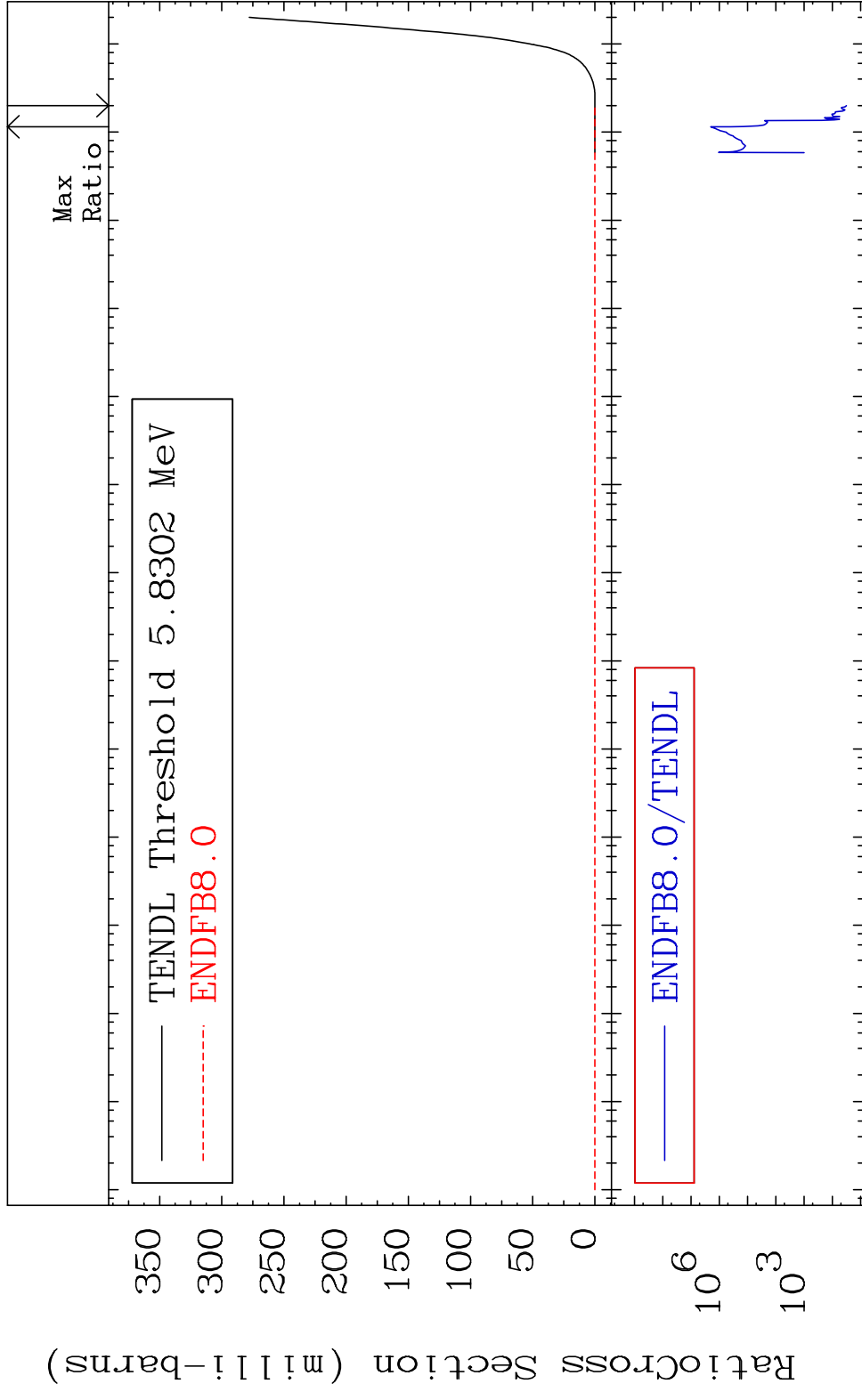
Incident Energy (eV)

75-Re-186m

MAT 7529

He-3 Production  
Cross Section 3112. To 9999. %

75-Re-186m  
To 9999. %

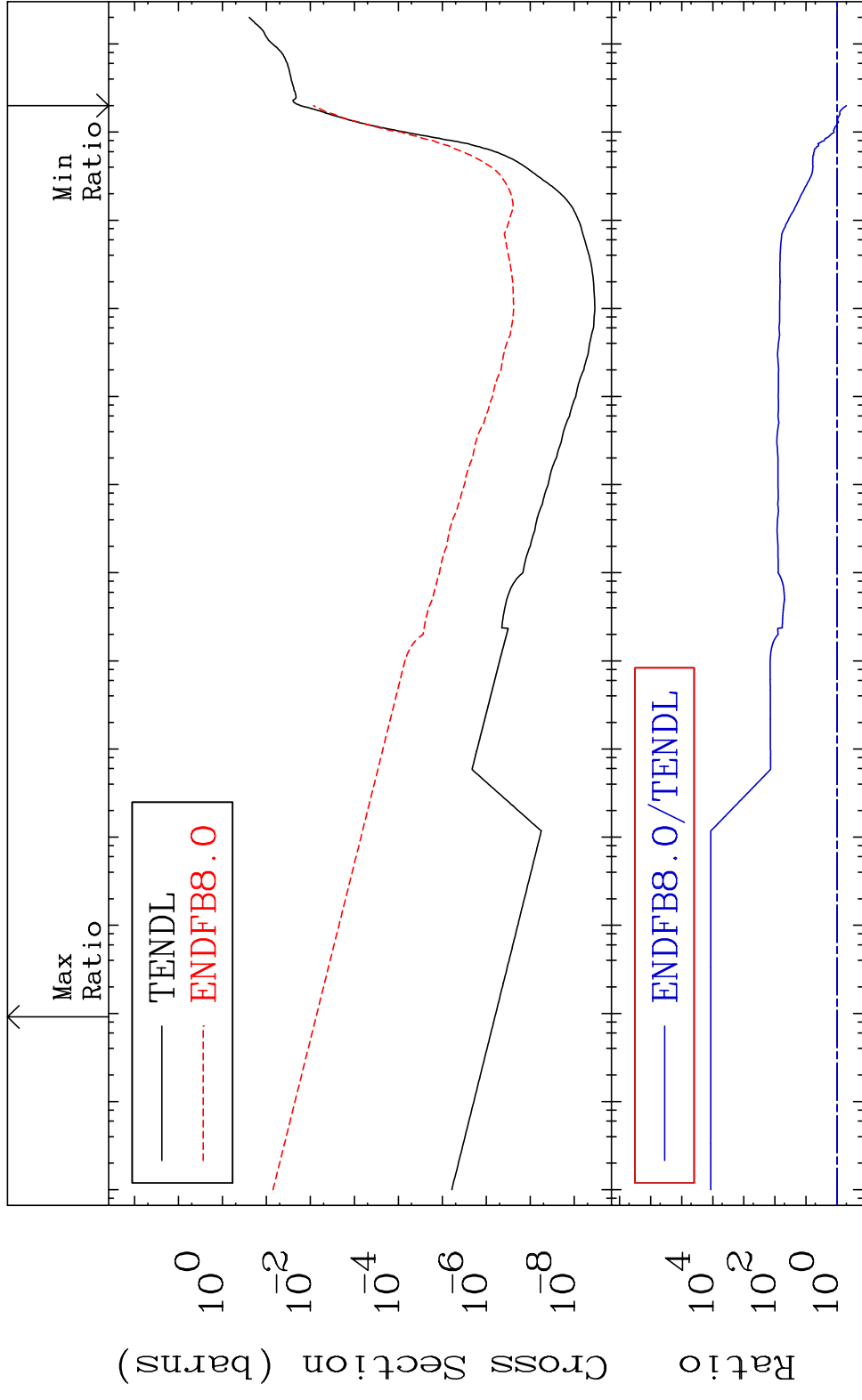


42

Incident Energy (eV)

75-Re-186m

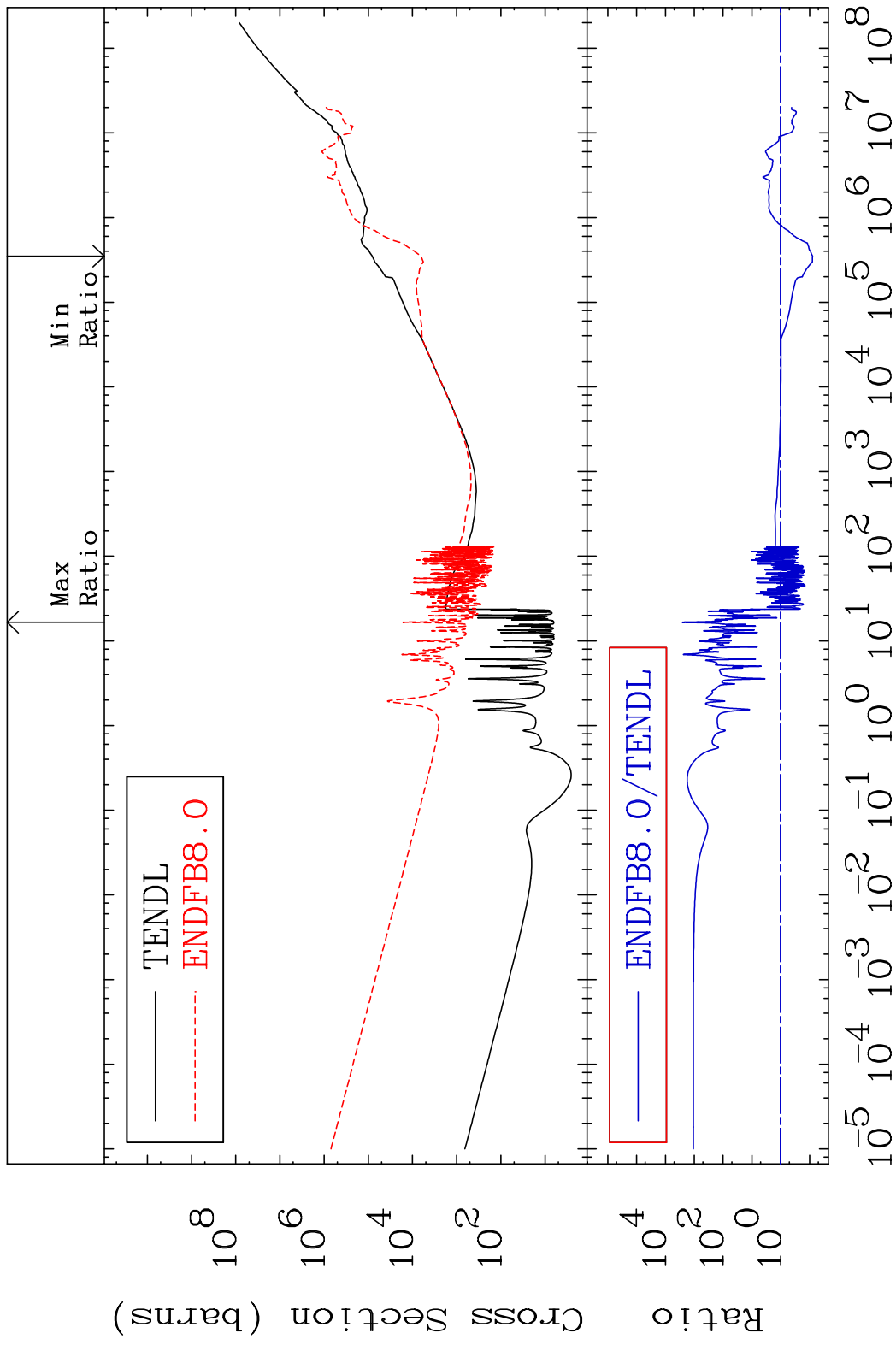
MAT 7529      He-4 Production      75-Re-186m  
 Cross Section      -49.72 To 9999. %



10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

43      Incident Energy (eV)      75-Re-186m

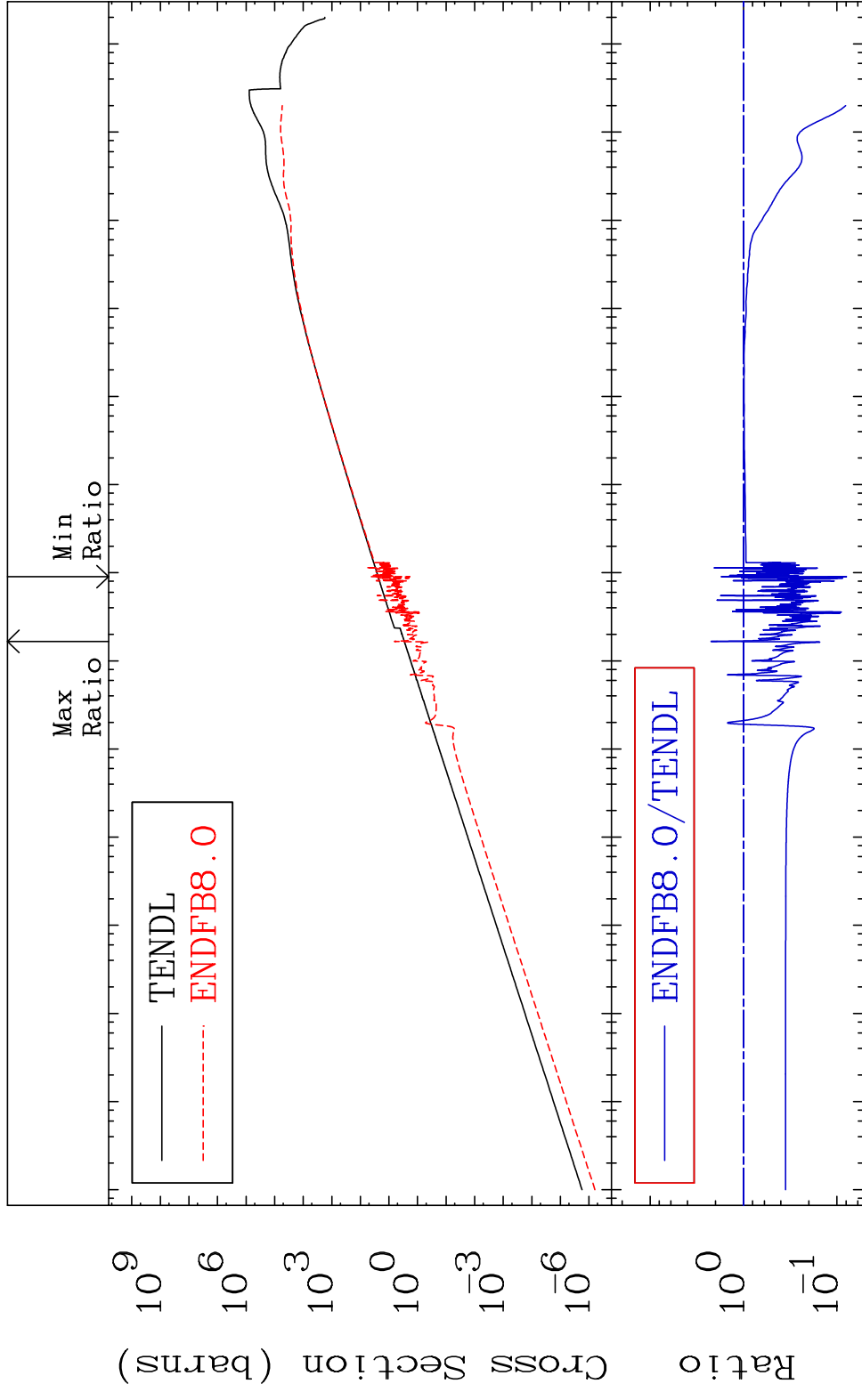
MAT 7529 Kerma total (eV-barns) 75-Re-186m  
 Cross Section -92.09 To 9999. %



MAT 7529

Kerma elastic  
Cross Section

75-Re-186m  
-92.06 To 125.0 %

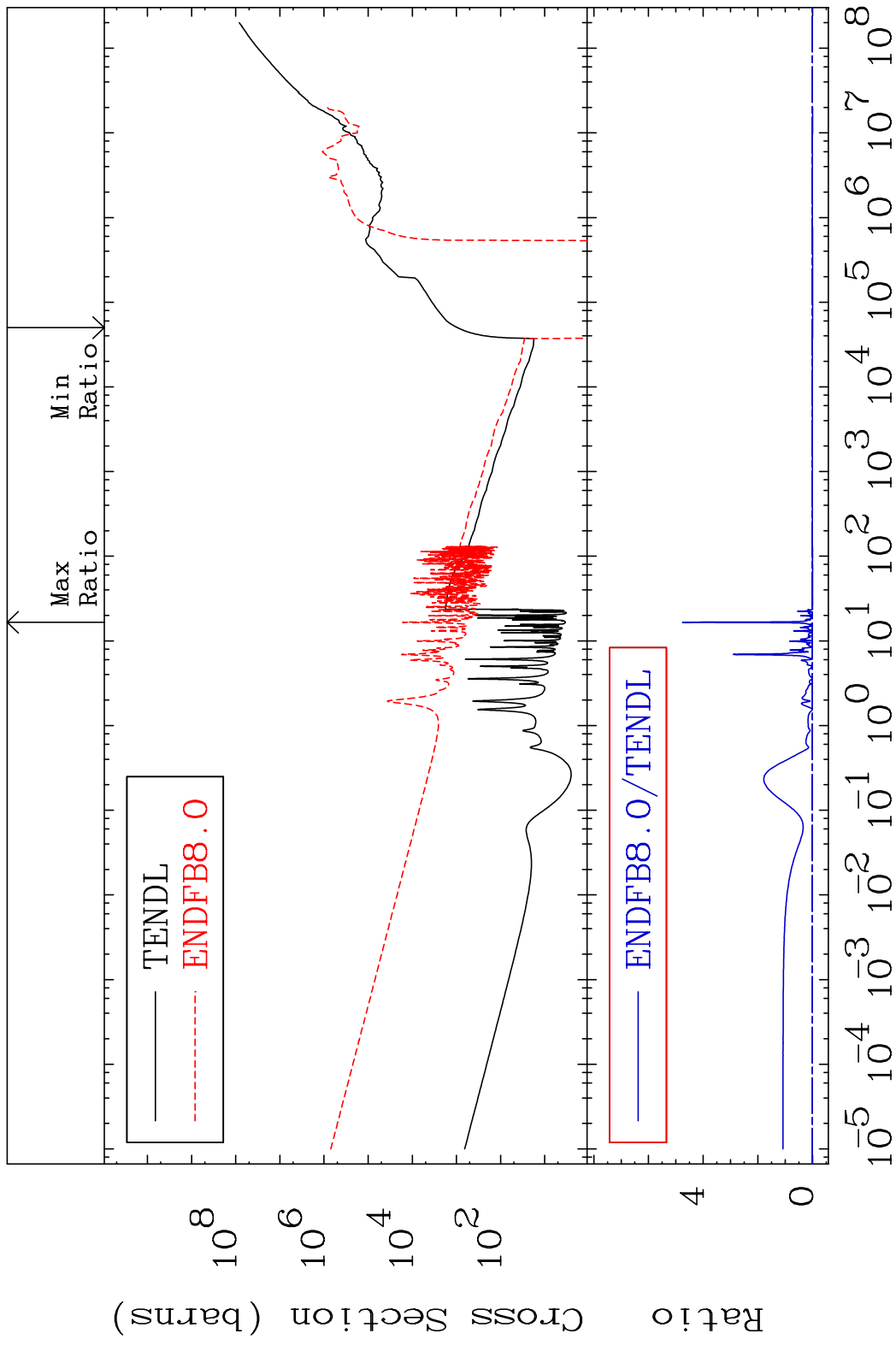


45

Incident Energy (eV)

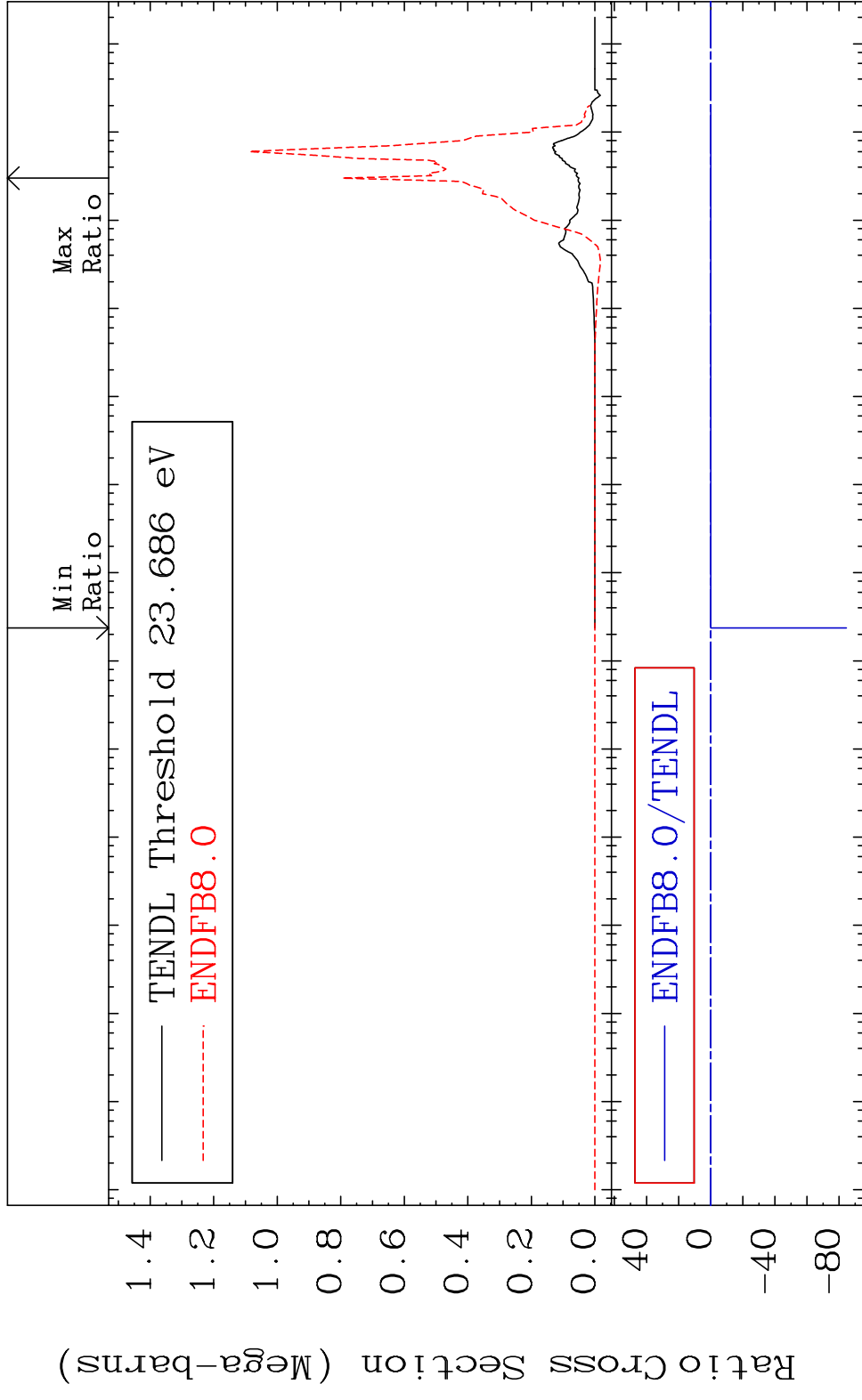
75-Re-186m

MAT 7529 Kerma non-elastic (all but mt2) 75-Re-186m  
 Cross Section -248.0 To 9999. %



46 Incident Energy (eV) 75-Re-186m

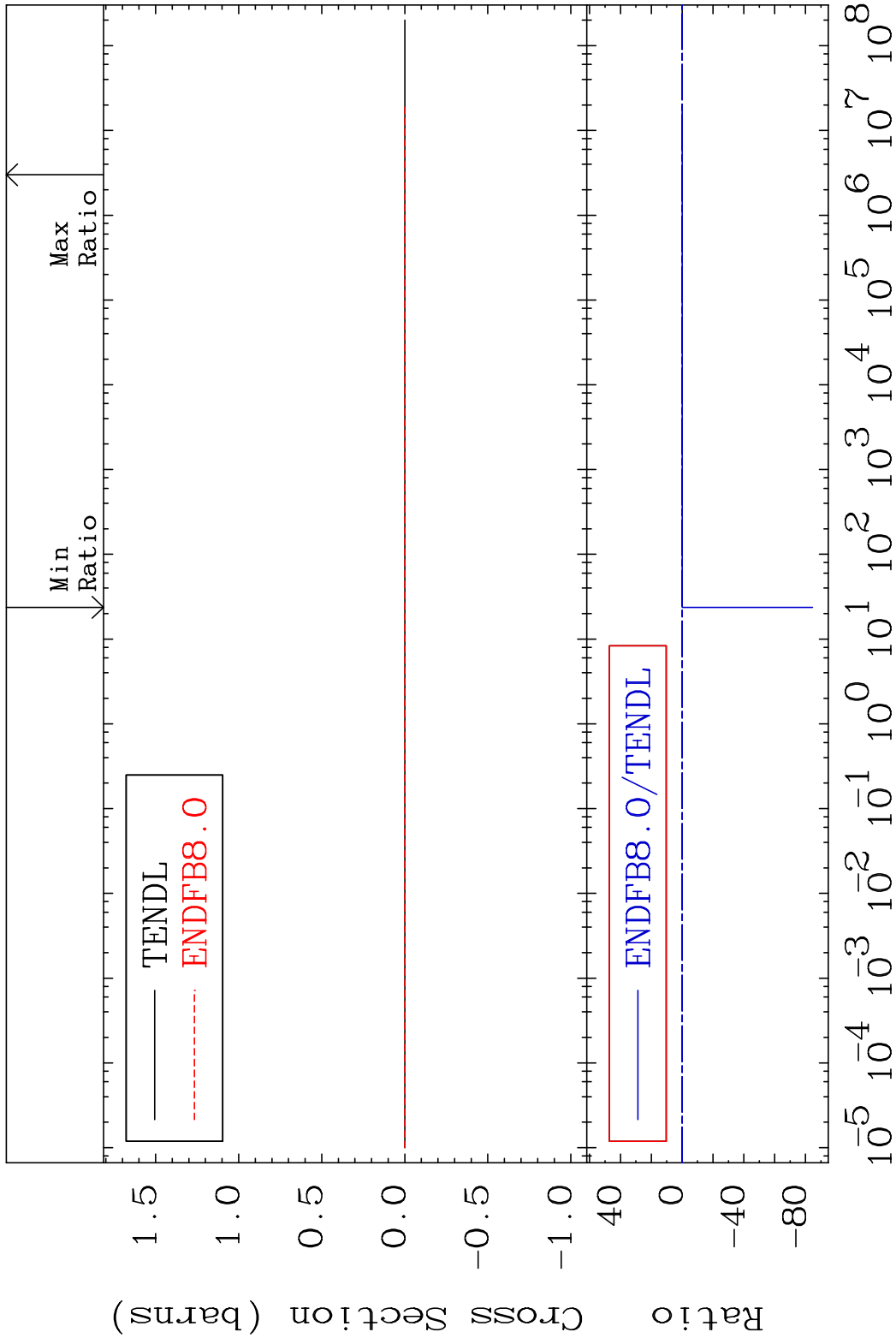
MAT 7529 Kerma inelastic (mt51-91) 75-Re-186m  
 Cross Section -9999. To 1487. %



47 75-Re-186m

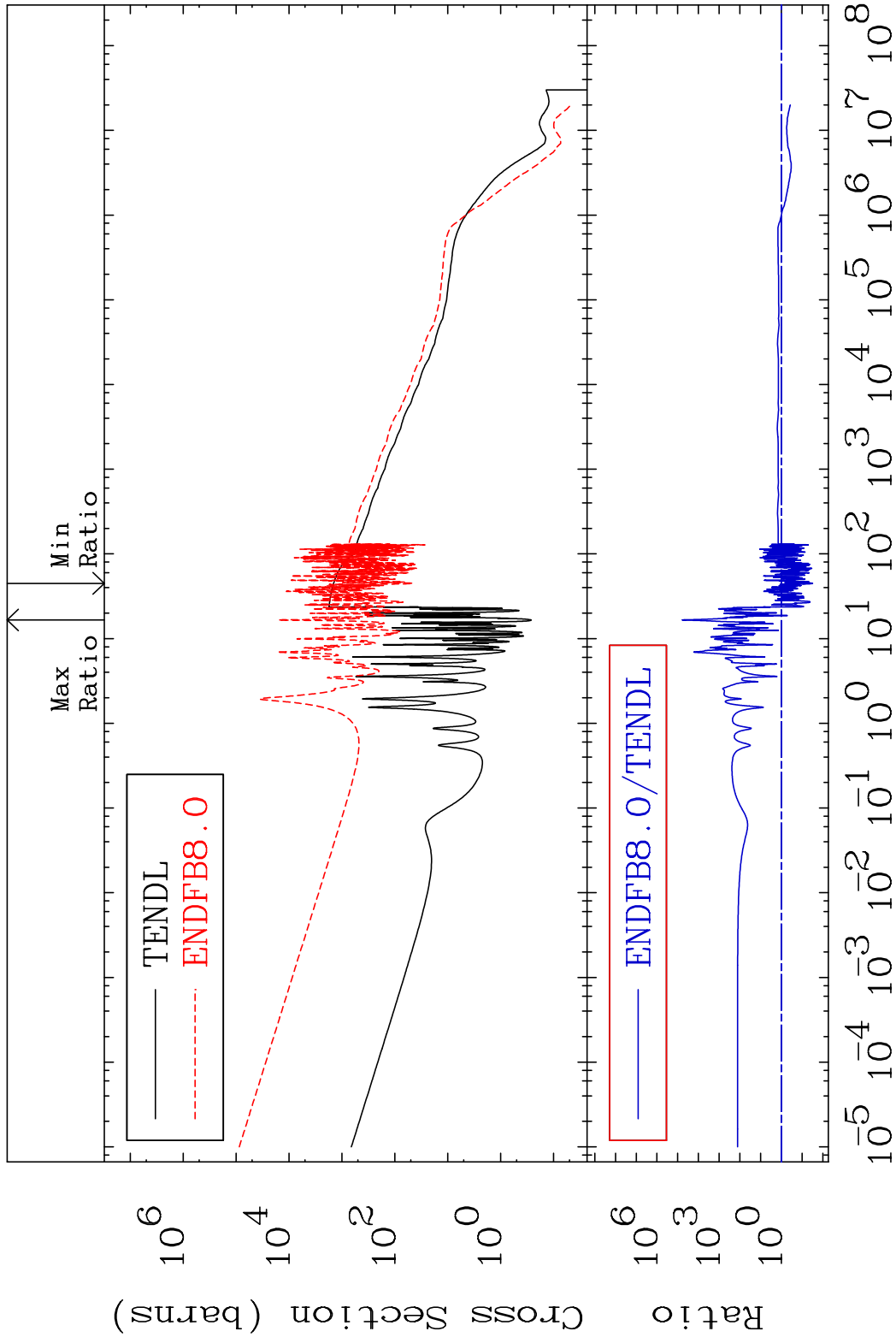


MAT 7529 Kerma fission (mt18 or mt19-20-21-38) Re-186m  
 Cross Section -9999. To 1487. %



MAT 7529

Kerma capture (mt102) 75-Re-186m  
Cross Section -96.85 To 9999. %



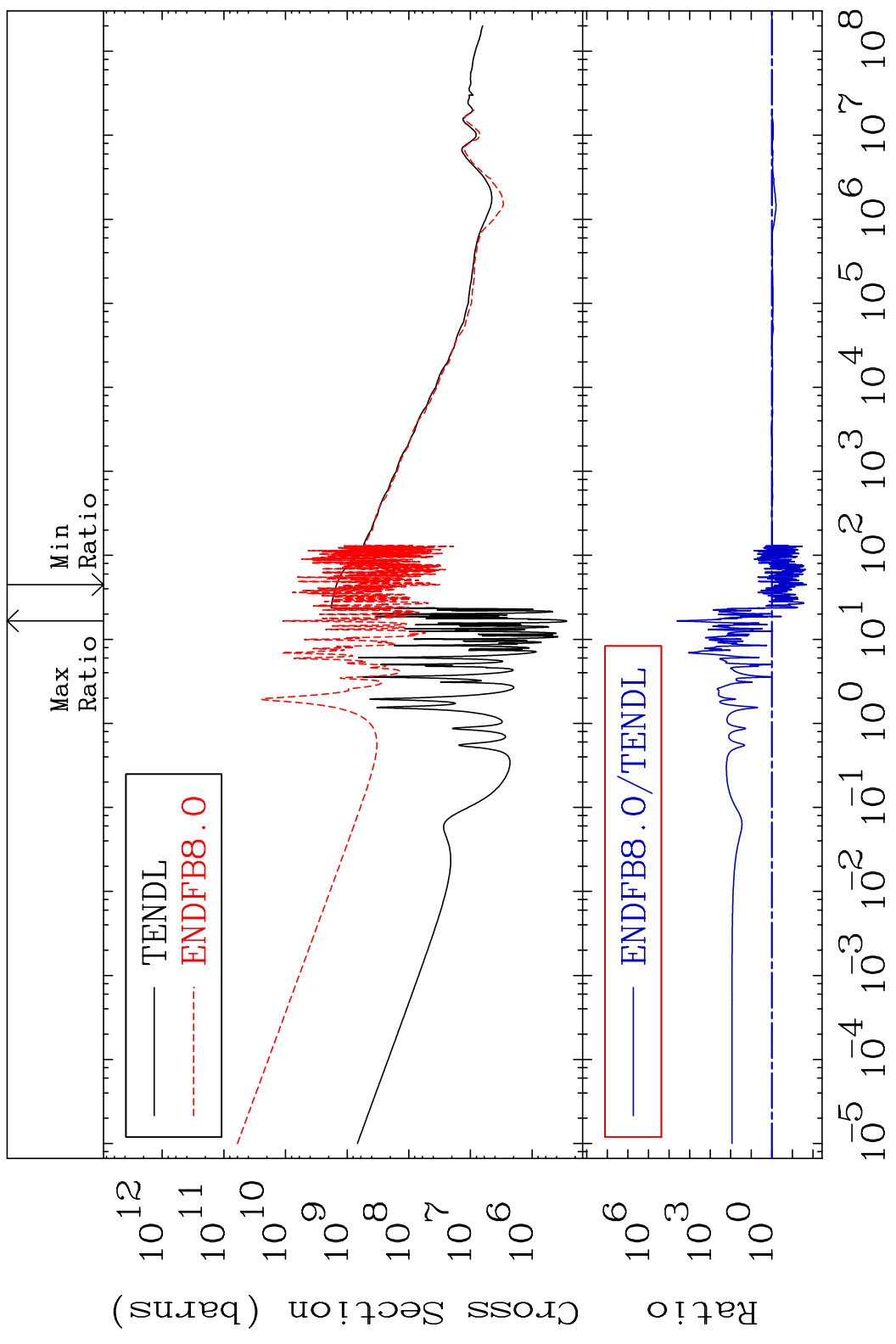
49

Incident Energy (eV)

75-Re-186m

MAT 7529

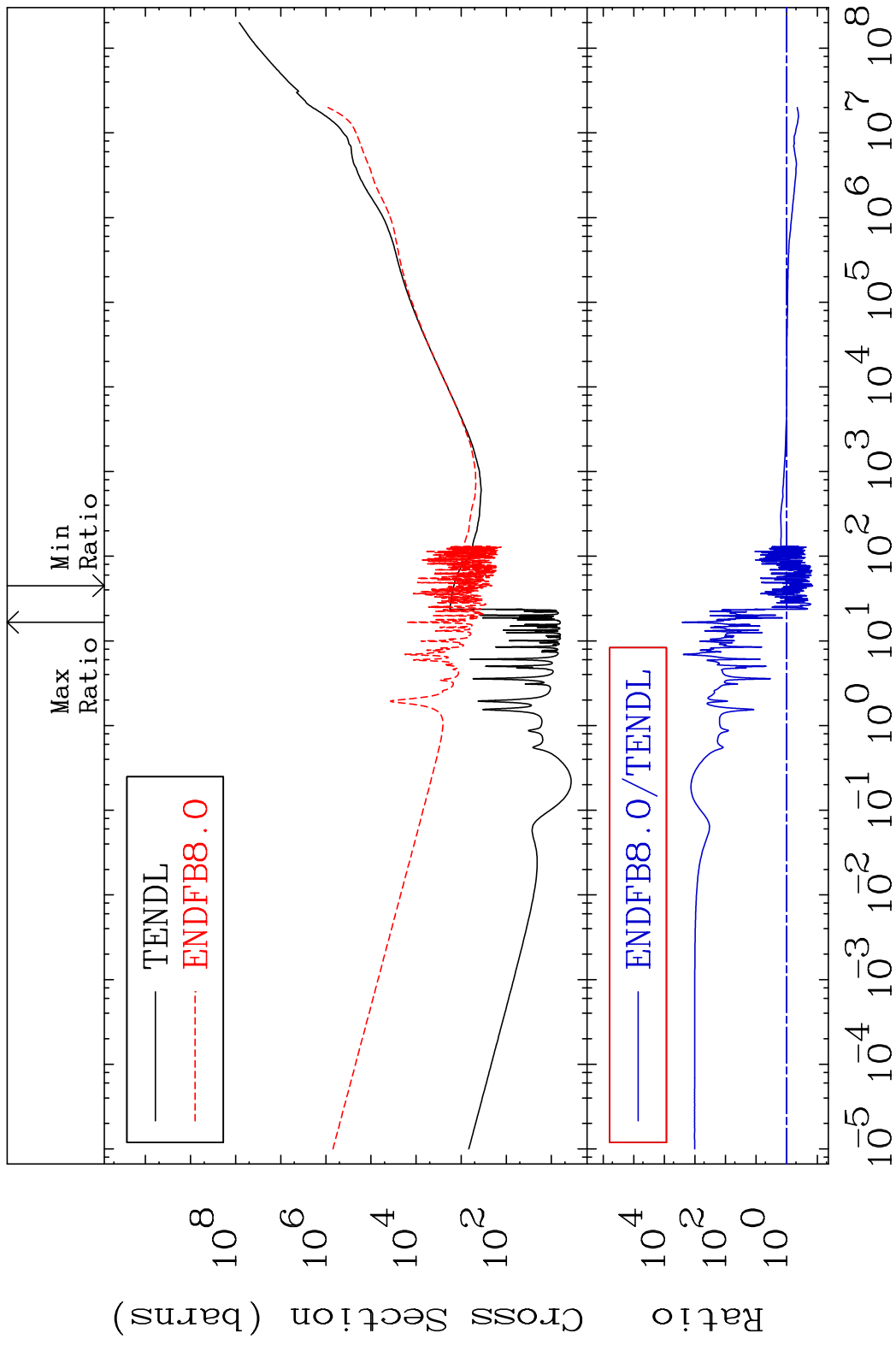
Total photon (eV-barns) 75-Re-186m  
Cross Section -97.89 To 9999. %



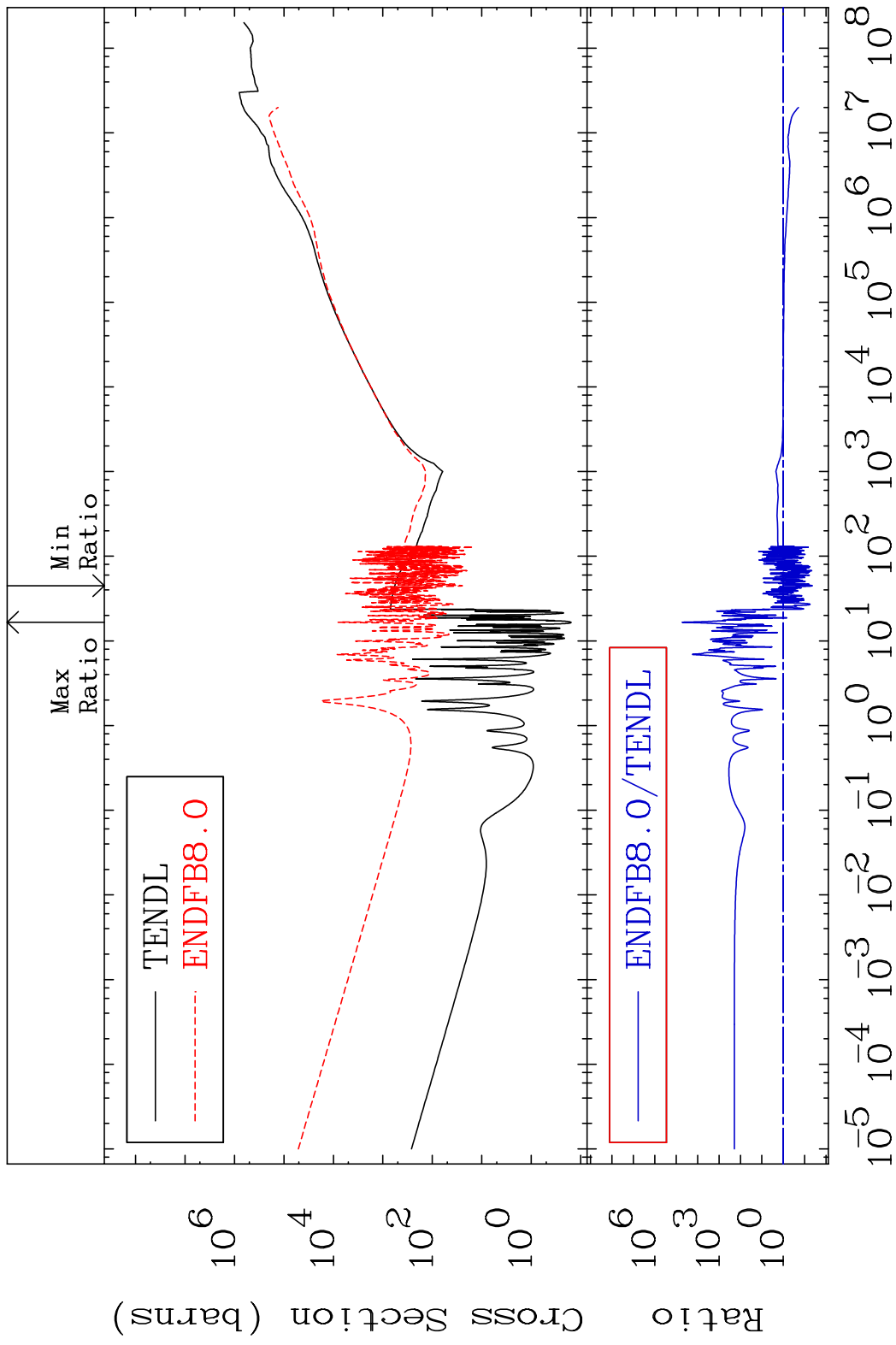
50

Incident Energy (eV) 75-Re-186m

MAT 7529 Total kinematic kerma (high limit)75-Re-186m  
 Cross Section -85.69 To 9999. %



MAT 7529 Dpa total (eV-barns) 75-Re-186m  
 Cross Section -95.70 To 9999. %



MAT 7529

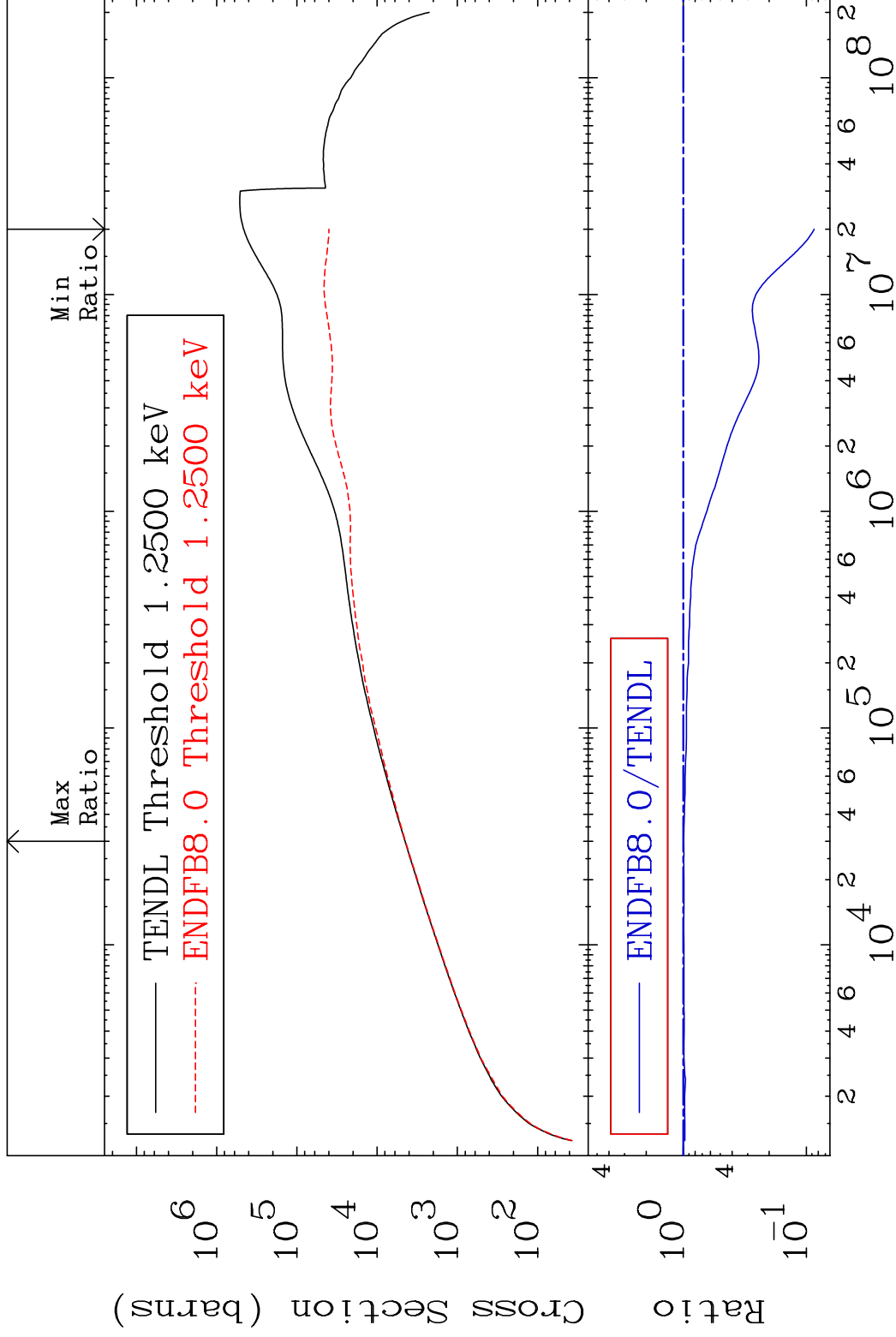
Dpa elastic (mt2)

75-Re-186m

Cross Section

-91.36

To -0.838%

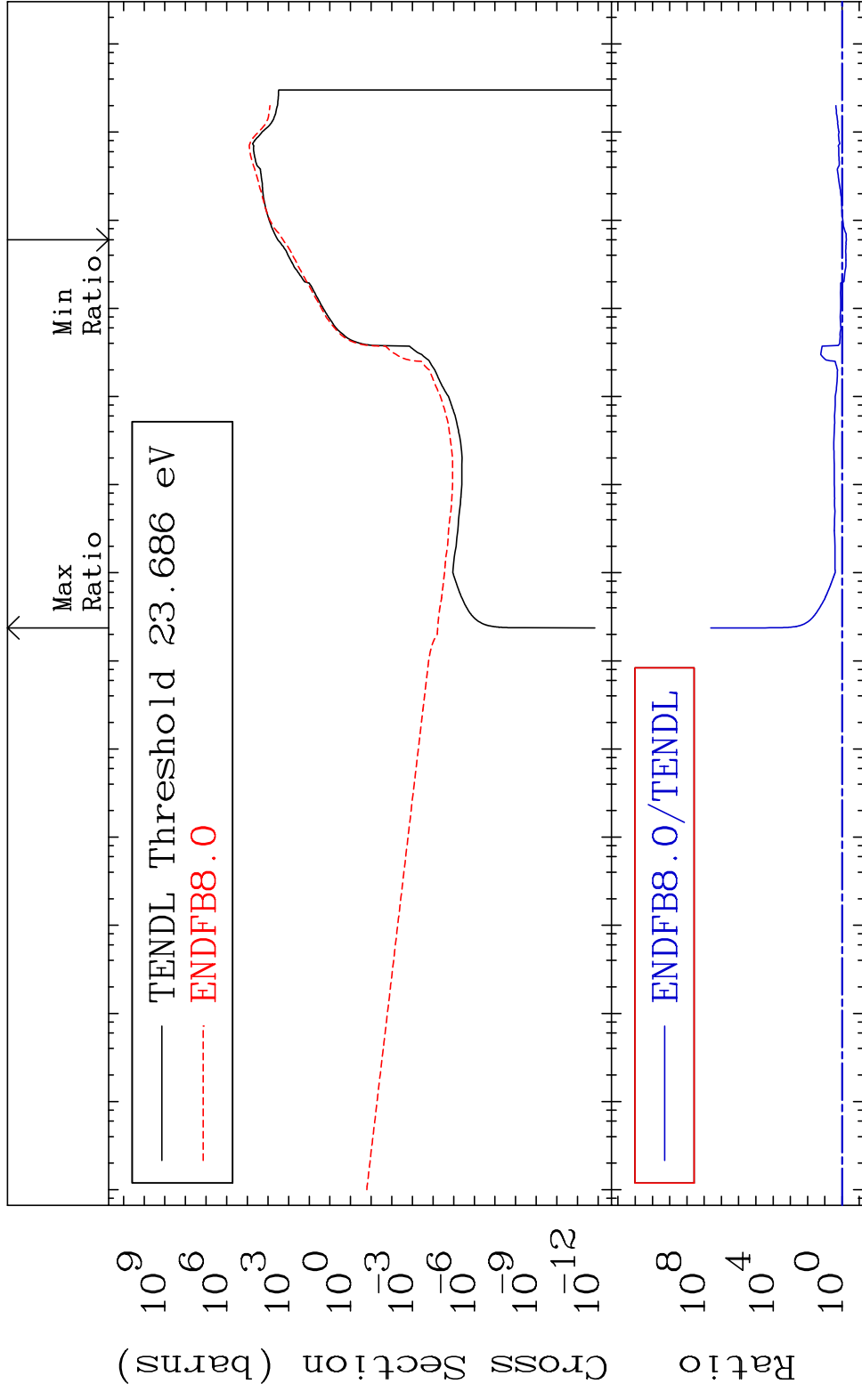


53

Incident Energy (eV)

75-Re-186m

MAT 7529      Dpa inelastic (mt51-91)      75-Re-186m  
 Cross Section      -43.52 To 9999. %

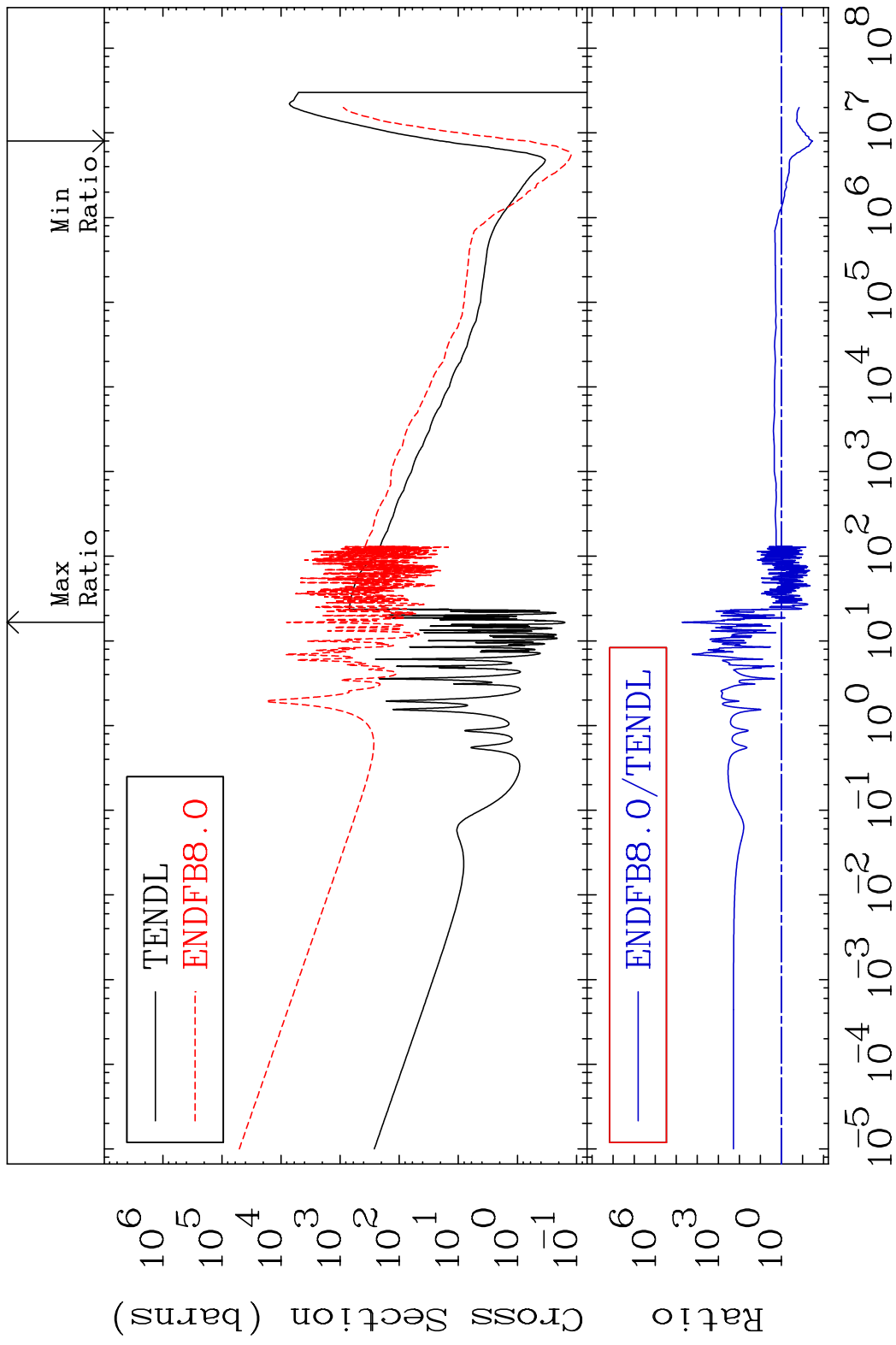


10<sup>9</sup>  
 10<sup>6</sup>  
 10<sup>3</sup>  
 10<sup>0</sup>  
 10<sup>-3</sup>  
 10<sup>-6</sup>  
 10<sup>-9</sup>  
 10<sup>-12</sup>  
 Cross Section (barns)

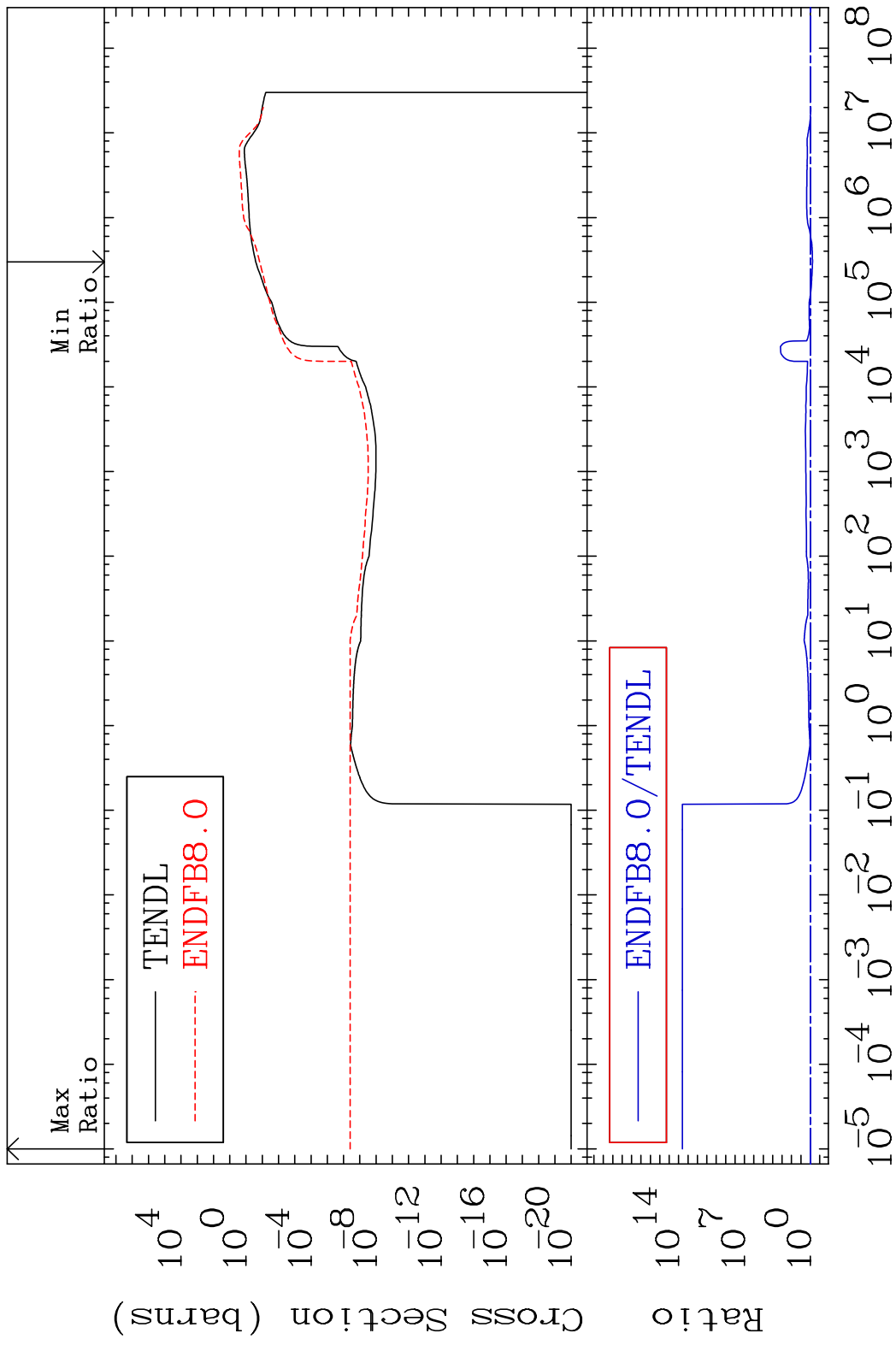
10<sup>8</sup>  
 10<sup>4</sup>  
 10<sup>0</sup>  
 Ratio

10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>  
 Incident Energy (eV)

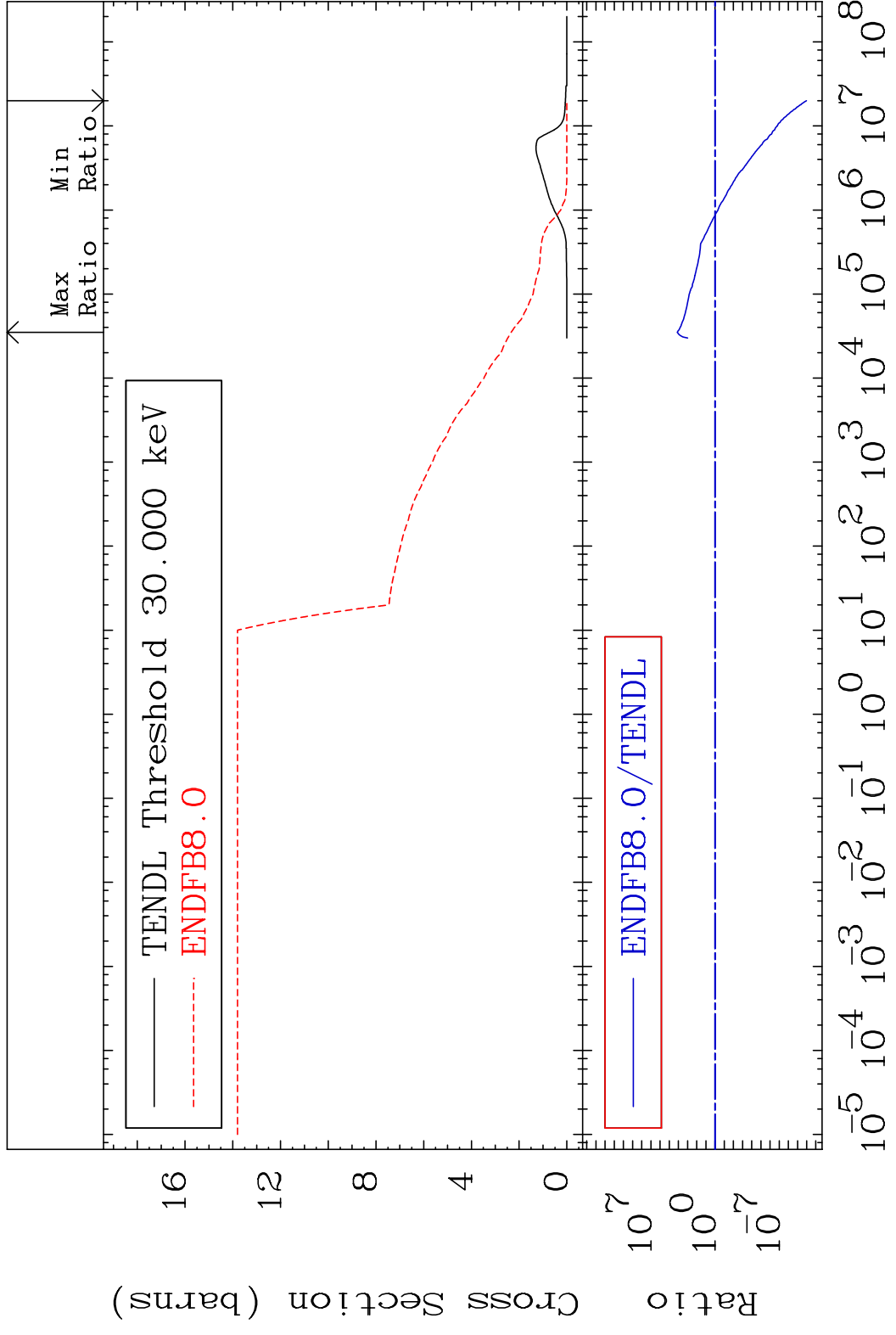
MAT 7529 Dpa disappearance (mt102 -120) 75-Re-186m  
 Cross Section -96.67 To 9999. %







MAT 7529 Inelastic: 75-Re-186m 75-Re-186m  
 Radionuclide Production Cross Section Ratio 9999. %



57 Incident Energy (eV) 75-Re-186m